

BLD23-7808

126 1st St W, Sonoma CA 95476

7/15/2024 10:34:09 AM



General Conditions

BUILDING PC REVIEW

stamps and attachments

CONTRACTOR SHALL NOT DEVIATE FROM THE APPROVED PLANS. REQUESTS FOR CHANGES SHALL BE MADE IN WRITING TO THE BUILDING DEPARTMENT. CHANGES MADE WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REJECTION OF THE WORK.

WARNING: ACCESSIBLE ROUTES OF TRAVEL ARE REQUIRED TO ALL SITE FACILITIES AND ALL BUILDING ENTRANCES. THESE PLANS MAY NEED REVISION TO COORDINATE WITH FUTURE IMPROVEMENTS.

Structural calculations are part of the approved plan set

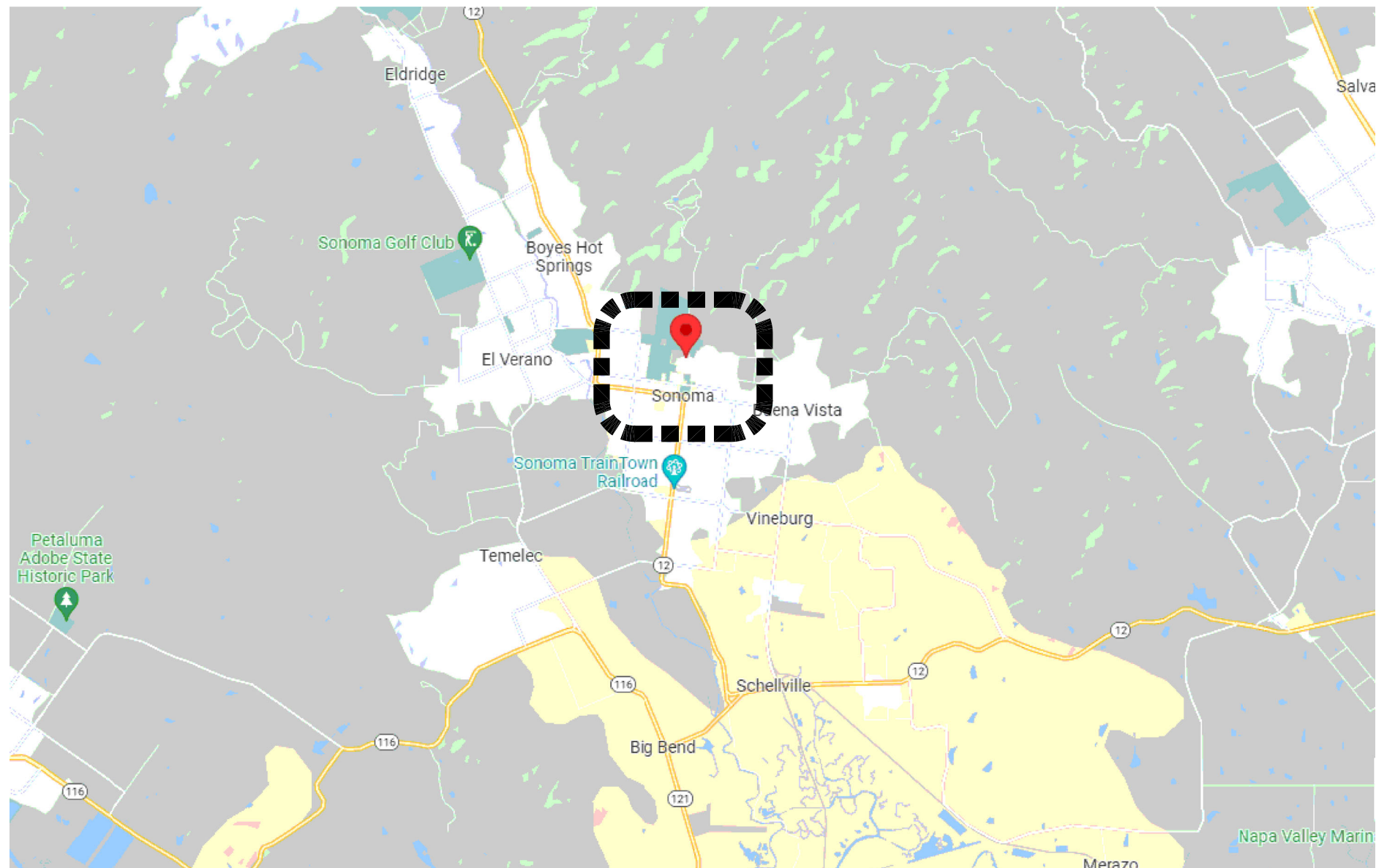
The Application for Unreasonable Hardship Determination for Accessibility Upgrades is part of the approved plan set

PROJECT NAME

CITY OF SONOMA, CALIFORNIA

SONOMA VETERANS MEMORIAL BUILDING: HVAC TENANT IMPROVEMENT

VICINITY MAPS



★APPROVED★
AS NOTED

PERMIT NO. **BLD23-7808** APPROVED BY **Paul Marquez**

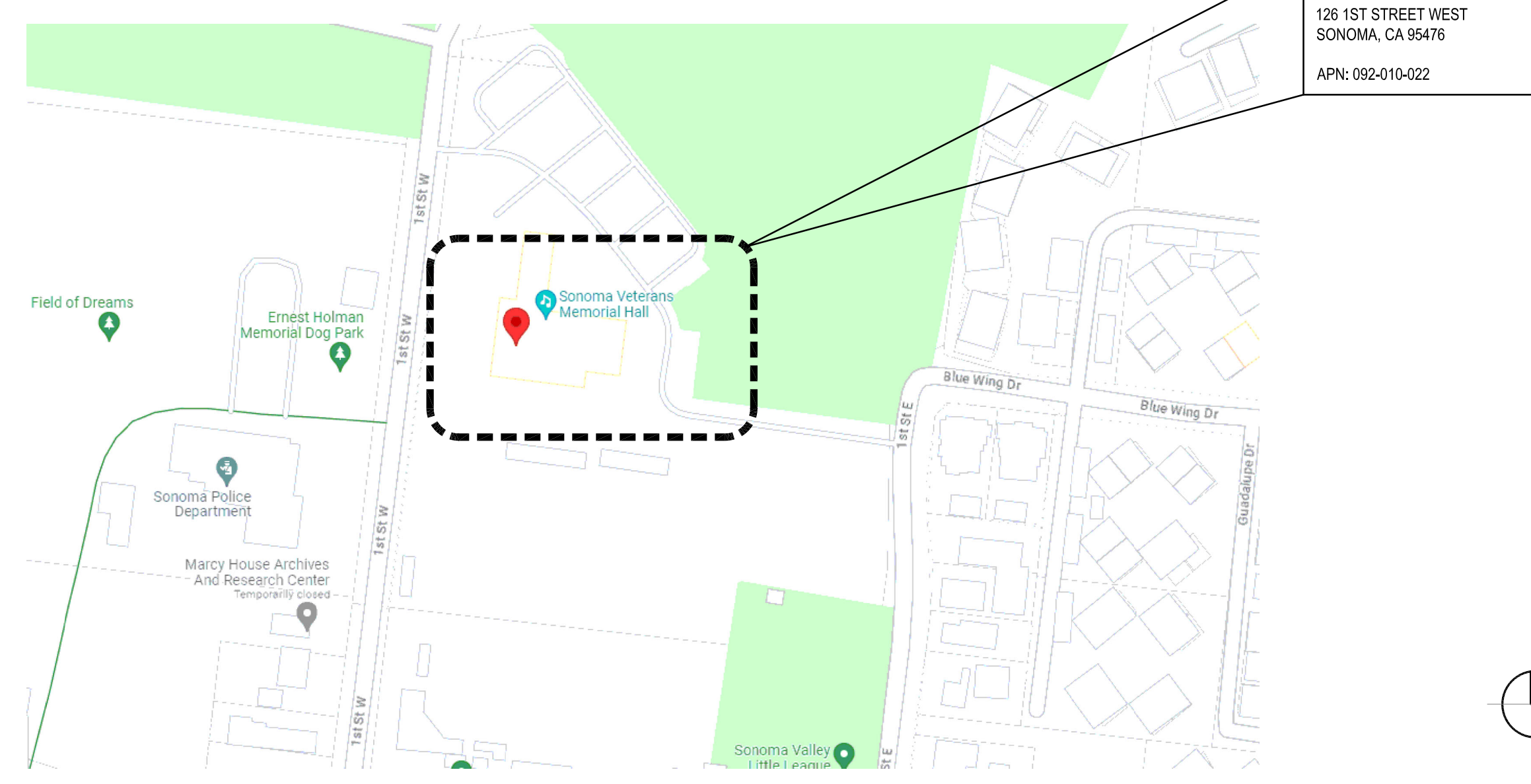
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

APPROVED JOB COPY OF PLANS TO BE PRINTED IN COLOR AND BE ON THE JOB SITE.

BUILDER SHALL NOT DEVIATE FROM THE APPROVED PLANS. REQUESTS FOR CHANGES SHALL BE MADE IN WRITING TO THE PERMIT AND RESOURCE MANAGEMENT DEPARTMENT. CHANGES MADE WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REJECTION OF THE WORK.

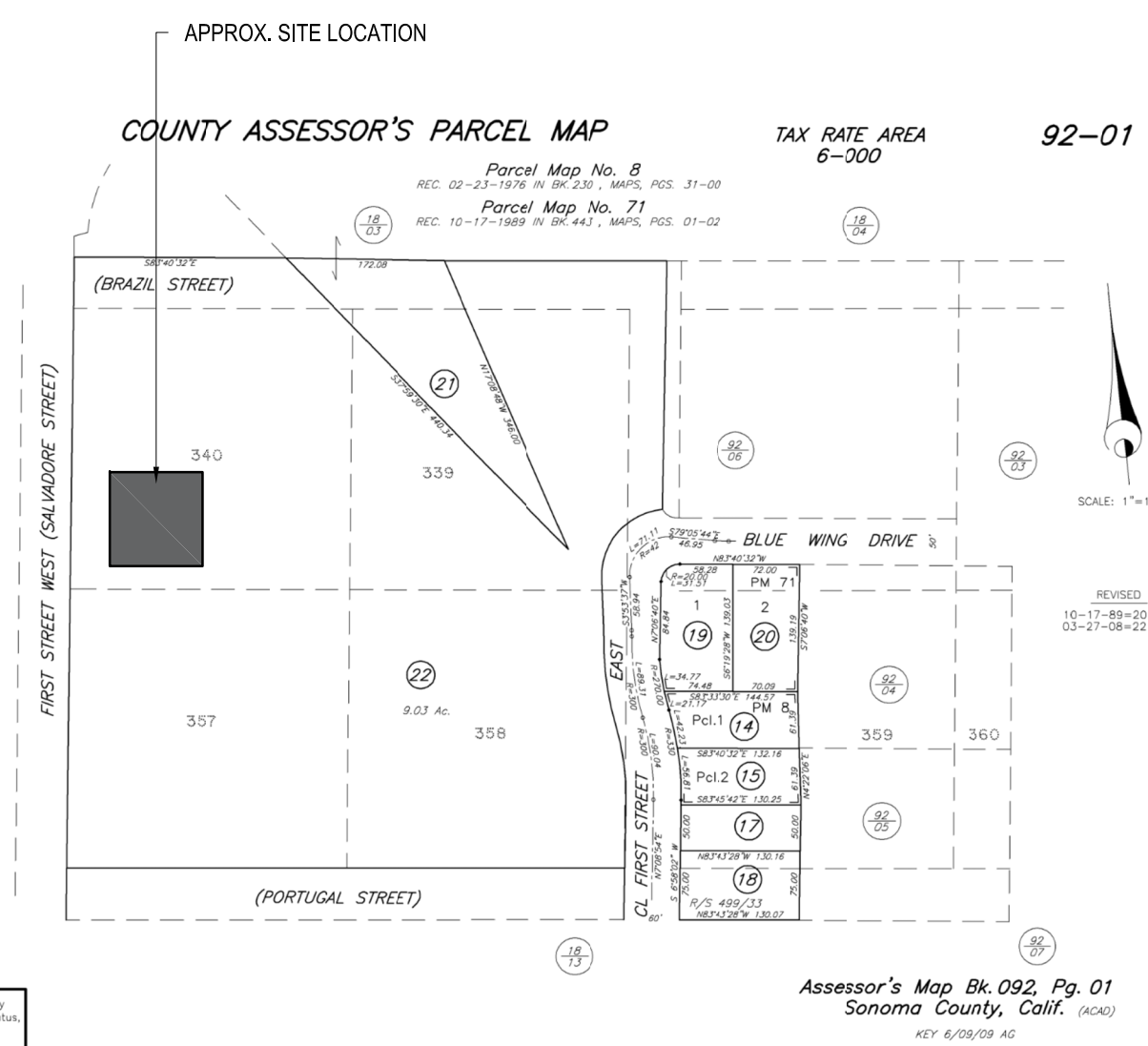
APPROVAL OF THESE PLANS IS SUBJECT TO, AND DOES NOT AUTHORIZE DEVIATION FROM COMPLETE COMPLIANCE WITH CODE REQUIREMENTS, SPECIAL INSPECTION WHEN REQUIRED, AND FIELD INSPECTION.

PLEASE READ ALL PERTINENT SECTIONS OF APPLICABLE CODES.



SITE LOCATION:
126 1ST STREET WEST
SONOMA, CA 95476
APN: 092-010-022

ASSESSOR'S PARCEL MAP



APPLICABLE CODES/REFERENCES

- CALIFORNIA BUILDING CODE - 2022 EDITION
- CBC - CALIFORNIA BUILDING CODE
 - CMC - CALIFORNIA MECHANICAL CODE
 - CPC - CALIFORNIA PLUMBING CODE
 - CEC - CALIFORNIA ELECTRICAL CODE
 - CFC - CALIFORNIA FIRE CODE
 - CEiC - CALIFORNIA ENERGY COMMISSION
 - CGBS - CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN)

- NATIONAL FIRE PROTECTION ASSOCIATION (PARTIAL LIST):
- NFPA 70 - NATIONAL ELECTRIC CODE (2023 EDITION)

- AMERICAN SOCIETY OF CIVIL ENGINEERS:
- ASCE 7 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

DOCUMENT LIST

CONTRACTOR SHALL REVIEW ENTIRE CONSTRUCTION SET, INCLUDING, BUT NOT LIMITED TO ALL SPECIFICATIONS, DRAWINGS, PROJECT MANUAL, CALCULATIONS AND CUT-SHEETS. ADDITIONAL LIST OF DOCUMENTS AND DRAWINGS CONTAINED HEREIN, INCLUDE:

- GENERAL SITE & PROJECT INFORMATION:
- G0.01 PROJECT COVER SHEET
 - G1.01 PROJECT SITE PLAN - GENERAL CONDITIONS

- MECHANICAL:
- M0.01 HVAC NOTES, LEGEND, SCHEDULES AND ABBREVIATIONS
 - M0.02 HVAC SPECIFICATIONS
 - M0.03 HVAC SPECIFICATIONS
 - M1.01 HVAC DEMOLITION PLAN - GROUND FLOOR
 - M1.02 HVAC DEMOLITION PLAN - ROOF
 - M1.03 HVAC PLAN - GROUND FLOOR
 - M1.04 HVAC PLAN - ROOF
 - M5.01 HVAC DETAILS
 - M7.01 TITLE-24 DOCUMENTATION
 - M7.02 TITLE-24 DOCUMENTATION

- ELECTRICAL:
- E-001 ELECTRICAL LEGEND AND ABBREVIATIONS
 - E-002 ELECTRICAL SPECIFICATIONS
 - E-101 ELECTRICAL ROOF DEMOLITION PLAN
 - E-113 ELECTRICAL ROOF PLAN
 - E-601 DIAGRAMS - SITE ELECTRICAL

- STRUCTURAL:
- S-001 STRUCTURAL GENERAL NOTES
 - S-002 CERTIFIED CURB INFORMATION
 - S-003 STATEMENT OF SPECIAL INSPECTIONS
 - S-101 PARTIAL ROOF PLAN
 - S-501 RT-1 SUPPORT DETAILS
 - S-502 RT-2 SUPPORT DETAILS
 - STRUCTURAL CALCULATIONS (SEPARATE DOCUMENT)

EQUIPMENT ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1615A, 1.12 THROUGH 1.22 AND ASCE 7-10 CHAPTER 6 AND 13.

- ALL PERMANENT EQUIPMENT AND COMPONENTS
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE. BUT NEED NOT BE DETAILED ON THE PLANS, THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2019 CBC, SECTION 1616.

THE BRACING ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE PRE-APPROVALS (OPA #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

PROJECT TEAM

OWNER/CLIENT:

COMPANY: COUNTY OF SONOMA
ADDRESS: 2300 COUNTY CENTER DRIVE, SUITE A220
SANTA ROSA, CA 95403
PHONE: 707.565.1366
EMAIL: MARK.ABEL@SONOMA-COUNTY.ORG
CONTACT: MARK ABEL, CASP | SENIOR PROJECT SPECIALIST

MECHANICAL ENGINEER:

COMPANY: 15000 INC.
ADDRESS: 6085 STATE FARM DRIVE #130
ROHNERT PARK, CA 94928
PHONE: 707.577.0363
EMAIL: MATT@15000INC.COM
CONTACT: MATTHEW TORRE, PE
ROBERT YOUNGER

ELECTRICAL ENGINEER:

COMPANY: BROKAW DESIGN
ADDRESS: 6080 DAWN DRIVE
ROHNERT PARK, CA 94928
PHONE: 707.799.6822
EMAIL: COURTNEY.CHUENYANE@BROKAWDESIGN.COM
CONTACT: COURTNEY CHUENYANE, PE LEED

PROJECT OVERSIGHT:

COMPANY: 15000 INC.
ADDRESS: 6085 STATE FARM DRIVE #130
ROHNERT PARK, CA 94928
PHONE: 707.577.0363
EMAIL: MATT@15000INC.COM
CONTACT: MATTHEW TORRE, PE

STRUCTURAL ENGINEER:

COMPANY: BROKAW DESIGN
ADDRESS: 6080 DAWN DRIVE
ROHNERT PARK, CA 94928
PHONE: 415.998.0323
EMAIL: TMLENGVEL@BROKAWDESIGN.COM
CONTACT: TIM LENGVEL, PE, SE

SCOPE OF WORK

PROVIDE MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL ENGINEERING TO SUPPORT THE REMOVAL OF TWO (2) GAS HEATING ONLY ROOFTOP UNITS WITH THE REPLACEMENT OF TWO (2) PACKAGED HEAT PUMP UNITS, AS WELL AS THE REPLACEMENT OF THREE (1) ROOFTOP EXHAUST FANS AND ONE (1) CEILING EXHAUST FAN. DESIGN SHALL INCORPORATE STRUCTURAL MODIFICATIONS TO SUPPORT THE NEW UNITS. PROVIDE NEW ROOFTOP DUCT LAYOUT DESIGN TO REPLACE EXISTING.

THE STRUCTURAL MODIFICATIONS WILL REQUIRE PORTIONS OF THE EXISTING ROOF TO BE PATCHED AND/OR REEROOFED. THE BASIS OF DESIGN FOR THE ROOF PATCHING IS MATCH THE EXISTING CONDITIONS: GAF ROOF SYSTEM (SEE BELOW FOR ADDITIONAL INFORMATION).



Sonoma Veterans Memorial Hall, 126 1st St W, Sonoma, CA 95476
SPECIFICATION: PFAT180

COMPONENT	TYPE	REQUIRED	ATTACHMENT	RATE OF APPLICATION
DECK	Wood plank	1"	Per Code	N/A
INSULATION 1	Dens Deck® Prime Roof Board, 900 psi ASTM C1177 Size: 1/2", 4" x 8' LTR: 0.56	1 layer	Fastened with: Drill-Tec™ XHD (#15) Fastener Drill-Tec™ 3 in. Ribbed Galvalume Plate (#1at)	1 fastener per 2 sq. ft. Field: 16 fasteners per 4' x 8' board Perimeter: 24 fasteners per 4' x 8' board Corner: 32 fasteners per 4' x 8' board
SINGLE PLY MEMBRANE	EverGuard® PVC Smooth 80 mil White ASTM D4834 Size: 10ft	1 ply	Adhered with: EverGuard® #2331 Bonding Adhesive	50-60 sq ft of installed membrane per gallon. Adhesive is applied to both substrate surface and the underside of the membrane.
FLASHING MEMBRANE	EverGuard® PVC Smooth 80 mil White ASTM D4834	1 ply	Adhered with: EverGuard® #2331 Bonding Adhesive	50-60 sq ft of installed membrane per gallon. Adhesive is applied to both substrate surface and the underside of the membrane. Maximum flashing height is 54". A separate counterflashing is required for guarantees over 20 years.
GUARANTEE	EverGuard® Diamond Pledge™ NDL Roof Guarantee	25 years		Guarantee fee applicable

DEFERRED SUBMITTALS

- ITEM(S) TO BE DEFERRED:
- CONSTRUCTION DOCUMENTS TO CORRECT CROSS SLOPE IN EXCESS OF 2% ON ACCESSIBLE ROUTES FROM PARKING TO THE MAIN ENTRANCE.

15000 INC.
heating, ventilation, air conditioning • plumbing design and engineering
6085 STATE FARM DR, #130 phone: 707.577.0363
ROHNERT PARK, CA 94928 fax: 707.577.0364



SIGNED 5-20-2024

CLIENT
County of Sonoma
2300 County Center Drive, Suite A220
Santa Rosa, CA 95403

PROJECT TITLE
Sonoma Veteran's
Memorial Hall
HVAC Tenant
Improvement

126 1st Street West
Sonoma, CA 95476

Date Stamped: 7/9/2024 Permit #: BLD23-7808 Plans Examiner: Paul Marquez
REVIEWED FOR COMPLIANCE - PERMIT SONOMA - BUILDING PLAN CHECK
APPROVED PLANS AND DOCUMENTS TO BE AVAILABLE ON THE JOB SITE
BUILDER SHALL NOT DEVIATE FROM THE APPROVED PLANS AND DOCUMENTS. REQUESTS FOR CHANGES SHALL BE MADE IN WRITING TO PERMIT SONOMA. CHANGES MADE WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REJECTION OF THE WORK.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSPECTIONS. SPECIAL INSPECTION WHEN REQUIRED, AND FIELD INSPECTION.
FOR A COMPLETE LIST OF PERMITS, VISIT: WWW.SONOMA-COUNTY.CA.GOV

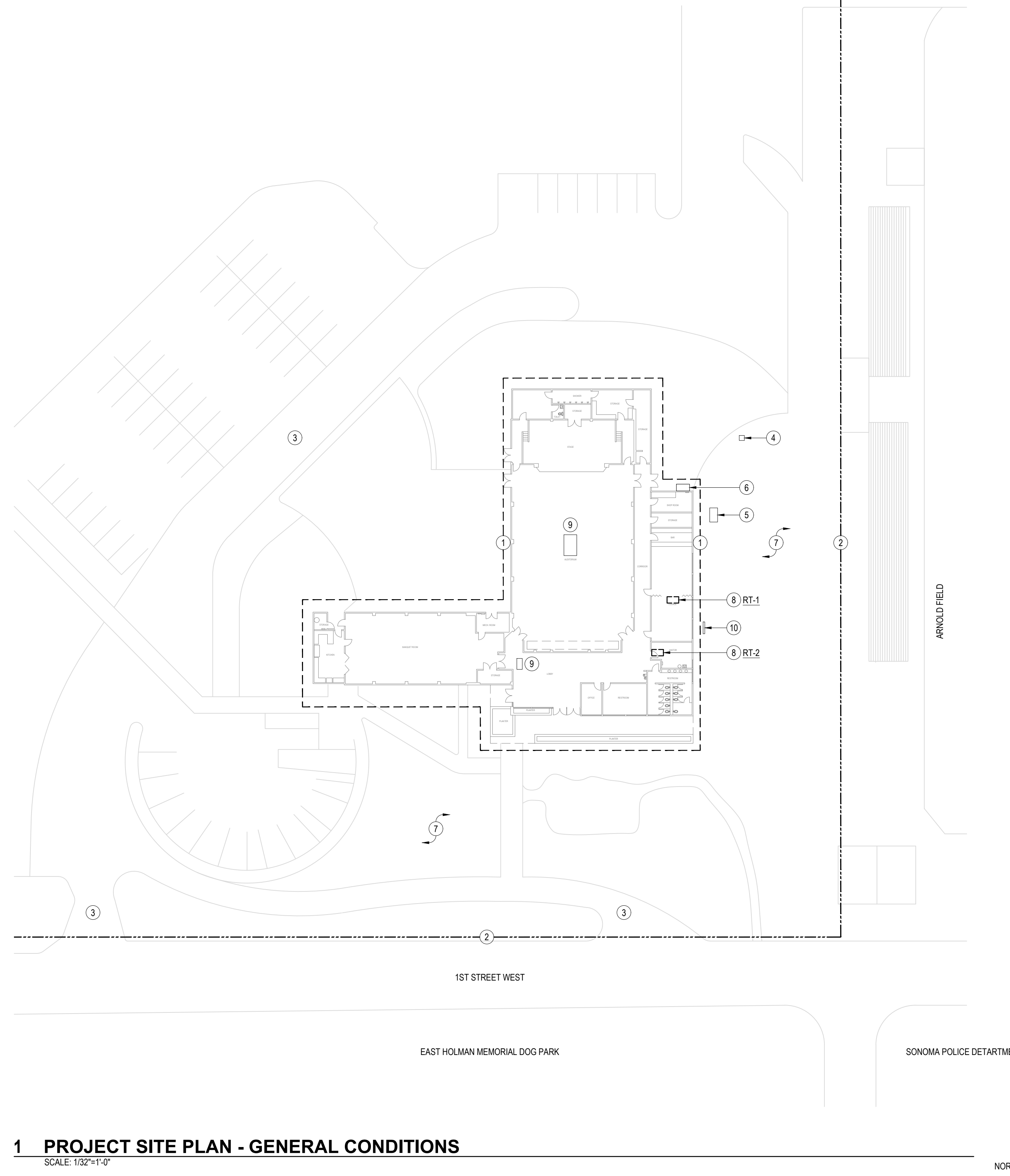
APPROVALS

#	REVISION	DATE
1	PLAN CHECK RESPONSE	05/21/2024

DRAWING TITLE
PROJECT
INFORMATION

ISSUE DATE	10/23/2023
ISSUE TYPE	OWNER REVIEW
DRAWN BY	RLY
CHECKED BY	MJT/JMT
SCALE	AS NOTED
PROJECT No.	1817.030

G0.01



1 PROJECT SITE PLAN - GENERAL CONDITIONS

SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

- (A) ANY EXISTING PROPERTY LINES, SITE FEATURES, SUBGRADE UTILITIES AND INFRASTRUCTURE ARE FOR REFERENCE ONLY AND IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO SITE VERIFY CONDITIONS AND REPORT BACK TO DESIGN TEAM IF DISCREPANCIES BETWEEN PLANS AND ACTUAL SITE CONDITIONS VARY.
- (B) CALL UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600 TO HAVE THEM LOCATE AND MARK EXISTING UNDERGROUND UTILITY LINES IN DRIVEWAY PRIOR TO CONSTRUCTION.
- (C) ANY DIMENSIONAL INFORMATION SHOWN IS FOR REFERENCE ONLY AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

SITE SHEET NOTES

- ① EXISTING STRUCTURE TO REMAIN, SHOWN FOR REFERENCE ONLY.
- ② APPROXIMATE PROPERTY LINE, VERIFY WITH COUNTY ASSESSOR'S MAP (APN: 092-010-022). REFER TO G0.01 FOR MAP.
- ③ EXISTING DRIVEWAY/DRIVE AISLE.
- ④ EXISTING TRANSFORMER, FOR REFERENCE ONLY.
- ⑤ EXISTING SWITCHGEAR, FOR REFERENCE ONLY. REFER TO ELECTRICAL SHEETS FOR FURTHER INFORMATION.
- ⑥ EXISTING GENERATOR AND TANK, FOR REFERENCE ONLY.
- ⑦ EXISTING LANDSCAPE AREA.
- ⑧ EXISTING HEATING ONLY ROOFTOP UNIT - REFER TO MECHANICAL SHEETS FOR DEMOLITION OF EQUIPMENT AND SPECIFICATION FOR REPLACEMENT HEAT PUMP UNIT. REFER TO STRUCTURAL AND ELECTRICAL PLANS FOR SUPPORTING WORK RELATED TO HVAC EQUIPMENT REPLACEMENT.
- ⑨ EXISTING HVAC UNIT TO REMAIN FOR REUSE (NO WORK, SHOWN FOR REFERENCE ONLY).
- ⑩ EXISTING PG&E GAS METER, SHOWN FOR PROXIMITY REFERENCE ONLY.

15000 inc.
 heating, ventilation, air conditioning • plumbing design and engineering
 6085 STATE FARM DR. #130 phone: 707.577.0363
 ROHNERT PARK, CA 94928 fax: 707.577.0364



SIGNED 5-20-2024

CLIENT
County of Sonoma
 2300 County Center Drive, Suite A220
 Santa Rosa, CA 95403

PROJECT TITLE
Sonoma Veteran's Memorial Hall HVAC Tenant Improvement

126 1st Street West
 Sonoma, CA 95476

APPROVALS

#	REVISION	DATE
1	PLAN CHECK RESPONSE	09/21/2024

DRAWING TITLE
PROJECT SITE PLAN - GENERAL CONDITIONS

ISSUE DATE	10/23/2023
ISSUE TYPE	OWNER REVIEW
DRAWN BY	RLY
CHECKED BY	MJT/JMT
SCALE	AS NOTED
PROJECT No.	1817.0.00

DRAWING

G1.01

Date Stamp: 7/18/2024, Permit: BLD23-7808, Plans Examiner: Paul Marquez
 REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA

TIMELOCK SPECIFICATION

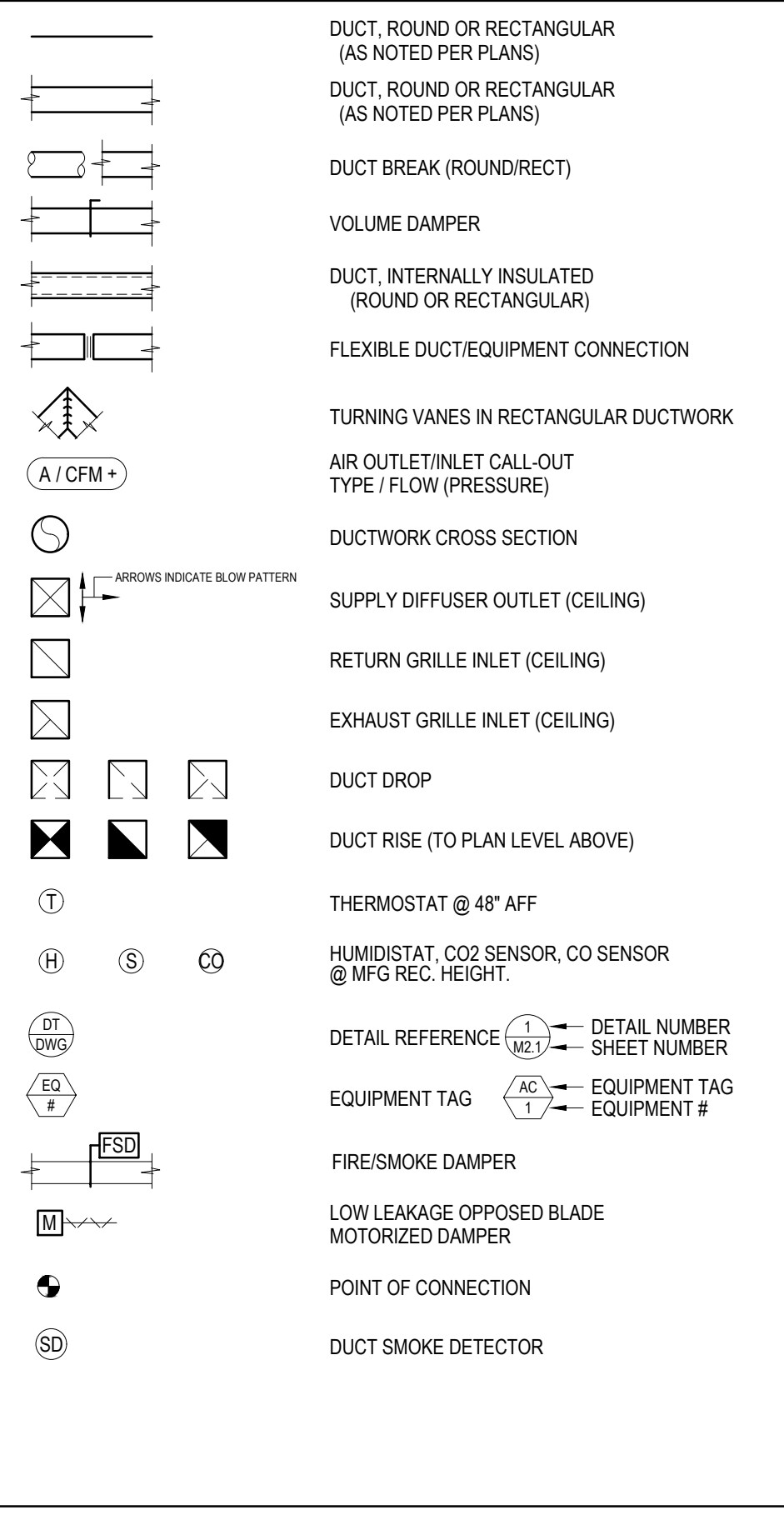
PROVIDE (1) INTERMATIC ET2745C 7-DAY 4-CIRCUIT ELECTRONIC TIMELOCK, 120VAC, BATTERY BACKUP, INDOOR ENCLOSURE. INTERLOCK EXHAUST FANS EF-1 THRU EF-4 TO TIMELOCK. FAN ACTIVATION SHALL CONCOIDE WITH THE BUILDING OCCUPIED SCHEDULE, COORDINATE OCCUPANCY SCHEDULING WITH OWNER PRIOR TO INSTALLATION.

GWP REFRIGERANT NOTE (2024)

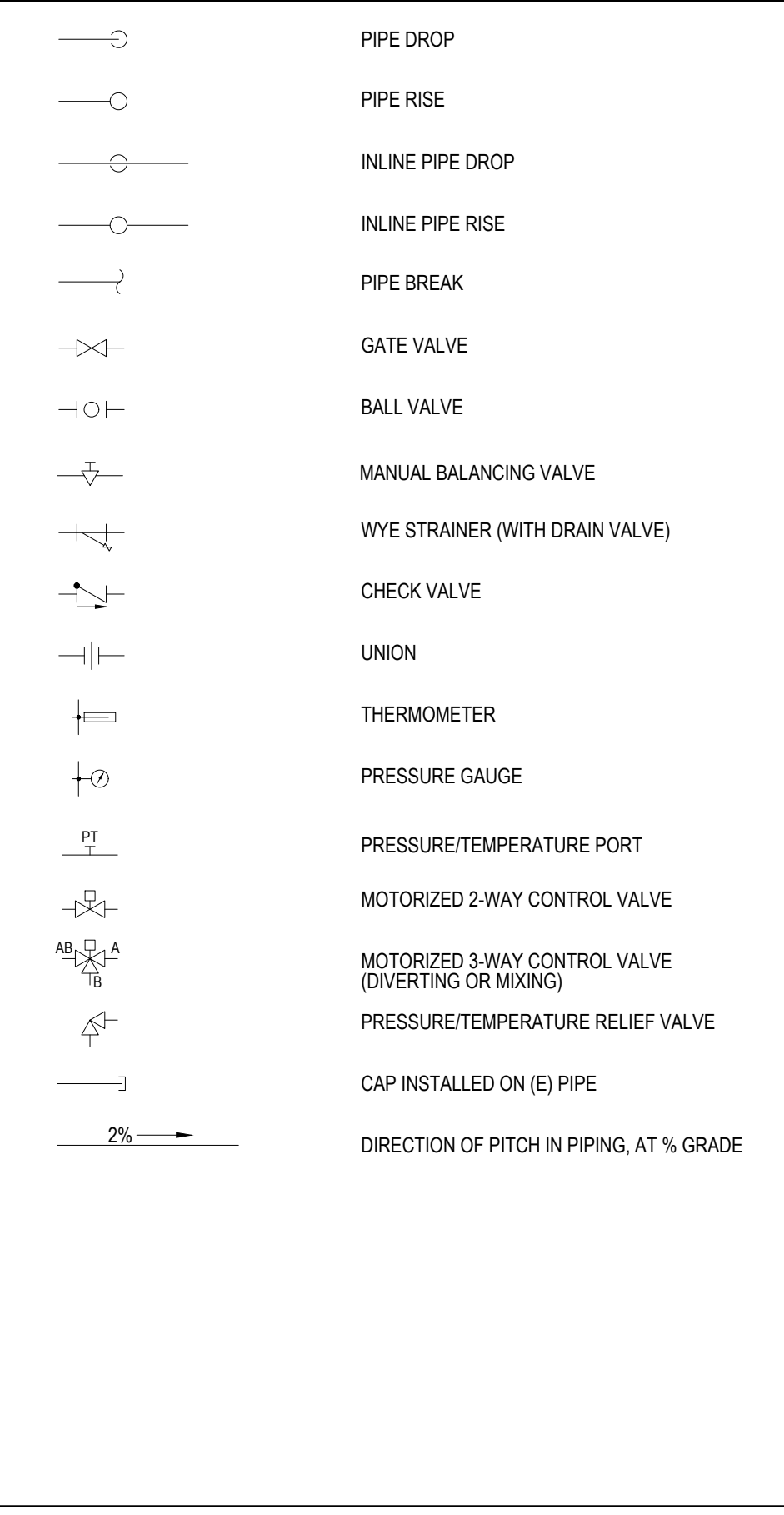
Table with 5 columns: EQUIPMENT TYPE (GENERAL END USE), EQUIPMENT TYPE (SPECIFIC END USE), PROHIBITED SUBSTANCES, EFFECTIVE DATE, EQUIPMENT IN PROJECT. Rows for NEW AIR-CONDITIONING EQUIPMENT, STATIONARY and NEW AIR-CONDITIONING EQUIPMENT, STATIONARY.

REMARKS: 1. THE PROVISIONS LISTEN WITHIN THE TABLE ARE IN REFERENCE TO CALIFORNIA CODE OF REGULATIONS, TITLE 17, DIVISION 3, CHAPTER 1, SUBCHAPTER 10 CLIMATE CHANGE, ARTICLE 4, AND ARE NOT EXHAUSTIVE. 2. THE GWP OF R410A IS APPROXIMATELY 2.088 AND IS THE CURRENT BASIS OF DESIGN FOR THIS PROJECT. 3. EQUIPMENT UTILIZING REFRIGERANTS EXCEEDING THE GWP USED FOR INSTALLATION AFTER THE ASSOCIATED EFFECTIVE DATE MUST HAVE A DATE OF MANUFACTURER LISTED ON THE EQUIPMENT NAMEPLATE DATA DEMONSTRATING THE EQUIPMENT WAS MANUFACTURED PRIOR TO THE EXPIRATION OF THE EFFECTIVE DATE. 4. EQUIPMENT WITH A DATE OF MANUFACTURER AFTER THE EFFECTIVE DATE LISTED ABOVE MUST UTILIZE LOW GWP REFRIGERANTS SUCH AS R-32, R-454B, ETC. AS OUTLINED BY THE CALIFORNIA AIR RESOURCE BOARD (CARB). 5. EQUIPMENT UTILIZING NEW LOW GWP REFRIGERANTS MAY HAVE GREATER WEIGHT, GREATER POWER DRAW, AND/OR DIFFER CHASSIS SIZE. THE CURRENT SET OF PLANS IS BASED UPON R-410A, AND IT IS THE REQUIREMENT OF THE CONTRACTOR TO COORDINATE THE ABOVE PARAMETERS SHOULD THERE BE A DELAY IN EQUIPMENT PROCUREMENT WHICH FORCES A CHANGE IN REFRIGERANT TYPE. 6. PLANS AND SPECIFICATIONS ARE NOT VALID FOR CONSTRUCTION AFTER 1/1/2025 IF >750 GWP REFRIGERANTS ARE UTILIZED FOR CONVENTIONAL HVAC EQUIPMENT (1/1/2026 FOR VRF/VRV EQUIPMENT).

HVAC LEGEND



HVAC LEGEND, CONT.



ABBREVIATIONS

Table listing abbreviations for various HVAC and plumbing components such as (N) NEW, (E) EXISTING, (AD) ACCESS DOOR, (AFC) ABOVE FINISHED CEILING, (AFF) ABOVE FINISHED FLOOR, (AFG) ABOVE FINISHED GRADE, (AHJ) AUTHORITY HAVING JURISDICTION, (AL) ALUMINUM, (ALM) ALUMINUM, (AP) ACCESS PANEL, (APSI) ABSOLUTE PRESSURE, (ATR) ALL THREAD ROD, (BD) BACKDRAFT DAMPER, (BF) BELOW FLOOR, (BG) BELOW GRADE, (BHP) BRAKE HORSEPOWER, (BLKG) BLOCKING, (BO) BY OTHERS, (BTU) BRITISH THERMAL UNITS, (BTUH) BRITISH THERMAL UNITS PER HOUR, (BV) BALL VALVE, (CD) CONDENSATE DRAIN PIPING, (CFF) CAPPED FOR FUTURE, (CFH) CUBIC FEET PER HOUR, (CFM) CUBIC FEET PER MINUTE, (CHRW) CHILLED WATER RETURN, (CHWS) CHILLED WATER SUPPLY, (CK) CHECK VALVE, (COTG) CLEANOUT TO GRADE, (CTE) CONNECT TO EXISTING, (CV) CONSTANT VOLUME, (CW) DOMESTIC COLD WATER, (CWW) COMBINATION WASTE & VENT, (DB) DRY BULB TEMPERATURE, (DH) DUCT HEATER, (DIA) DIAMETER, (DN) DOWN, (DWV) DRAIN, WASTE, AND VENT, (EA) EXHAUST AIR, (EAT) ENTERING AIR TEMPERATURE, (EC) ELECTRICAL CONTRACTOR, (ECM) ELECTRONIC COMMUTATED MOTOR, (EDH) ELECTRIC DUCT HEATER, (EFF) EFFICIENCY, (ESP) EXTERNAL STATIC PRESSURE, (EWT) ENTERING WATER TEMPERATURE, (F) DEGREES FAHRENHEIT, (FBO) FURNISHED BY OTHERS, (FC) FLEXIBLE CONNECTION, (FCO) FLOOR CLEANOUT, (FD) FLOOR DRAIN, (FD) FIRE DAMPER, (FLA) FULL LOAD AMPERES, (FS) FLOOR SINK, (FSD) COMBINATION FIRE/SMOKE DAMPER, (FPM) FEET PER MINUTE, (F) FEET, (FT2) SQUARE FEET, (G) GAS PIPING, (GC) GAS COCK, (GFC) GENERAL CONTRACTOR, (GPF) GALLONS PER FLUSH, (GPM) GALLONS PER MINUTE, (GMS) GALVANIZED SHEET METAL SCREW, (GV) GATE VALVE, (GW) GREASE WASTE, (HB) HOSE BIBB, (HHWR) HEATING HOT WATER RETURN, (HR) HEAT RECOVERY, (HWS) HEATING HOT WATER SUPPLY, (HP) HORSEPOWER, (HW) DOMESTIC HOT WATER, (HX) HEAT EXCHANGER, (IFC) IN FURRED CEILING, (IN) INCH, (INS) INSULATION, (IS) IN SOFFIT, (IS) ISSUE, (IW) INDIRECT WASTE, (K) KILOGRAMS, (LAT) LEAVING AIR TEMPERATURE, (LBS) POUNDS, (LWT) LEAVING WATER TEMPERATURE, (MAT) MIXED AIR TEMPERATURE, (MAX) MAXIMUM, (MBH) BTUH, THOUSANDS, (MCA) MINIMUM CIRCUIT AMPERES, (MFR) MANUFACTURER, (MIN) MINIMUM, (MOCP) MAXIMUM OVERCURRENT PROTECTION, (NA) NOT APPLICABLE, (NC) NORMALLY CLOSED, (NIC) NOT IN CONTRACT, (NO) NORMALLY OPEN, (OA) OUTSIDE AIR, (OC) ON CENTER, (OD) OVERFLOW DRAIN, (OP) OWNER PROVIDED, (PH) PRE-HEAT, (PC) POINT OF CONNECTION, (PRTV) PRESSURE/TEMPERATURE RELIEF VALVE, (PRV) PRESSURE RELIEF VALVE, (PSI) GAUGE PRESSURE (POUNDS PER SQUARE INCH), (PTDF) PRESSURE TREATED DOUGLAS FIR, (RA) RETURN AIR, (RD) ROOF DRAIN, (RVD) RELIEF VALVE DISCHARGE, (RL) REFRIGERANT LIQUID PIPING, (RSPB) REDUCED PRESSURE BACKFLOW PREVENTER, (RPM) REVOLUTIONS PER MINUTE, (RS) REFRIGERANT SUCTION PIPING, (RWL) RAN/WATER LEADER, (S) SENSOR, (SA) SHOCK ABSORBER, (SA) SUPPLY AIR, (SAD) SEE ARCHITECTURAL DRAWINGS, (SCD) SEE CIVIL DRAWINGS, (SD) STORM DRAIN, (SD) SMOKE DETECTOR, (SED) SEE ELECTRICAL DRAWINGS, (SEER) SEASONAL ENERGY EFFICIENCY RATIO, (SHGF) SOLAR HEAT GAIN FACTOR, (SHR) SENSIBLE HEAT RATIO, (SMD) SEE MECHANICAL DRAWINGS, (SMS) SHEET METAL SCREW, (SOV) SHUT OFF VALVE, (SP) SPRINKLER, (SP) STATIC PRESSURE, (SPD) SEE PLUMBING DRAWINGS, (SQFT) SQUARE FEET, (SS) SANITARY SEWER, (SSD) SEE STRUCTURAL DRAWINGS, (T) THERMOSTAT, (TH) THERMOMETER, (TPV) TRAP PRIMER VALVE, (TSP) TOTAL STATIC PRESSURE, (TYP) TYPICAL, (U) UNION, (UG) UNDERGROUND, (UON) UNLESS OTHERWISE NOTED, (V) VENT PIPING, (VAV) VARIABLE AIR VOLUME, (VD) VOLUME DAMPER, (VFD) VARIABLE FREQUENCY DRIVE, (VF) VERIFY IN FIELD, (VPH) VOLTS/PHASE/HERTZ, (VSD) VARIABLE SPEED DRIVE, (VTR) VENT THROUGH ROOF, (W) WITH, (WO) WITHOUT, (WA) WATER HAMMER ARRESTOR, (WB) WET BULB TEMPERATURE, (WC) WATER COLUMN, (WC) WALL CLEANOUT, (WT) WEIGHT.

CALGREEN NOTES

- 1. HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS. 2. PROVIDE DOCUMENTATION TO SHOW COMPLIANCE WITH CONSTRUCTION DOCUMENTS, INSTALLER CERTIFICATIONS, INSPECTION REPORTS, TO DEMONSTRATE SUBSTANTIAL CONFORMANCE. WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS NECESSARY TO VERIFY COMPLIANCE, THAT METHOD OF COMPLIANCE WILL BE SPECIFIED IN THE APPROPRIATE SECTION OR IDENTIFIED IN THE APPLICATION CHECKLIST 3. AABC COMPLIANCE: COMPLY WITH AABC'S MANUAL, MIN. 1 "AABC NATIONAL STANDARDS", AS APPLICABLE TO MECHANICAL AIR DISTRIBUTION SYSTEMS AND ASSOCIATED EQUIPMENT AND APPARATUS, EXCEPT AS OTHERWISE SPECIFIED. DEVELOP A WRITTEN PLAN OF PROCEDURES TO BE INCLUDED FOR TESTING AND BALANCING. SUBMIT CERTIFIED TEST REPORTS SIGNED BY THE TEST AND BALANCE SUPERVISOR WHO PERFORMED TESTING AND BALANCING WORK. PROVIDE A COPY OF THE FINAL TEST REPORT TO THE ENFORCING AGENCY. 4. PROVIDE VENTILATION DURING CONSTRUCTION THRU OPENINGS IN THE BUILDING SHELL USING TEMPORARY FANS TO PRODUCE A MINIMUM OF 3 AIR CHANGES PER HOUR. DO NOT USE THE PERMANENT HVAC EQUIPMENT FOR THIS PURPOSE. 5. COVER ALL DUCT OPENINGS WITH SHEET METAL OR PLASTIC DURING CONSTRUCTION TO REDUCE DUST AND DEBRIS IN DUCTWORK. 6. ALL AIR FILTERS SHALL BE MINIMUM MERV 13. A HIGHER MERV RATING MAY BE REQUIRED ON SCHEDULES OR SPECIFICATIONS. 7. NO HVAC REFRIGERANT SYSTEMS USING HYDROCHLOROFLUOROCARBONS SHALL BE USED ON THE PROJECT. 8. PROVIDE THE BUILDING OWNER WITH DETAILED OPERATION AND MAINTENANCE INSTRUCTIONS AND COPIES OF WARRANTIES/WARRANTIES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION.

EQUIPMENT ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTE ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1615.1.2 THROUGH 1.22 AND ASCE 7-10 CHAPTER 6 AND 13. 1. ALL PERMANENT EQUIPMENT AND COMPONENTS 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER. 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2019 CBC, SECTION 1616.

THE BRACING ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE PRE-APPROVED (OPA #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

HVAC SERVICE CHECK NOTES

PERFORM FULL SERVICE DIAGNOSTIC CHECK, INCLUDING BUT NOT LIMITED TO:

- 1. TIGHTEN ELECTRICAL CONNECTIONS TO ORIGINAL EQUIPMENT MINIMUM REQUIREMENTS. 2. CHECK AIRFLOW, REFRIGERANT LEVEL, CURRENT (AMP.) DRAW. 3. CLEAN EVAPORATOR AND CONDENSER COILS. 4. INSPECT INDOOR FAN COIL DRAIN PAN AND DRAIN LINES. 5. CLEAN FAN BLADES AND CHECK FOR DUCT LEAKS. 6. CHECK AND VERIFY ECONOMIZER OPERATION. 7. PROGRAM THERMOSTATS TO OWNER SETPOINT AND TIME REQUIREMENTS. 8. LUBRICATE ALL MOVING PARTS PER MANUFACTURER'S RECOMMENDATIONS. 9. REPLACE BELTS AND FILTERS. 10. CLEAN COOLING COILS (ROOFTOP UNIT ONLY). 11. COMB EVAPORATIVE SECTIONS (ROOFTOP UNIT ONLY). 12. INSPECT HEAT EXCHANGER AND BURNER COMBUSTION (HEATING SPECIFIC). 13. CHECK AND ENSURE REFRIGERANT LEVEL AND CHARGE ARE WITHIN THE MANUFACTURER'S OPERATIONAL GUIDELINES. 14. DYNAMICALLY BALANCE BLOWER MOTOR.

REPORT ANY DEFICIENCIES TO OWNER. SUBMIT TO MEOB.

HVAC GENERAL NOTES

- 1. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO BE USED AS A GUIDE FOR THE INSTALLATION OF A COMPLETE MECHANICAL SYSTEM. CONTRACTOR SHALL AMEND ALL INFORMATION AS REQUIRED AS SITE CONDITIONS WARRANT. 2. WHERE INDICATED BY "SUBMIT TO MEOB", PROVIDE DETAILED SUBMITTALS FOR REVIEW BY MECHANICAL ENGINEER OF RECORD. ALL DRAWINGS SHALL BE IN 1/4"=1'-0" SCALE AND ELECTRONIC. ALL SUBMITTALS SHALL BE ELECTRONIC. 3. PROVIDE ALL EQUIPMENT AND LABOR NECESSARY FOR THE COMPLETE AND WORKABLE INSTALLATION OF ALL SPECIFIED AND OWNER SUPPLIED EQUIPMENT AND FIXTURES. 4. ALL WORK SHALL BE PERFORMED IN FULL ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES. 5. ALL DAMPERS INSTALLED OVER AREAS WITH HARD CEILINGS SHALL BE PROVIDED WITH EITHER REMOTE OPERATORS OR ACCESS PANELS. 6. COORDINATE LOCATION OF ALL ACCESS PANELS WITH ARCHITECTURAL PLANS 7. DO NOT CUT ANY STRUCTURAL MEMBERS OR STUDS WITHOUT PROPER COORDINATION WITH GENERAL CONTRACTOR AND STRUCTURAL DRAWINGS. 8. ALL DUCTWORK SHALL BE RUN PERPENDICULAR TO STRUCTURE UNLESS OTHERWISE NOTED. 9. DUCTWORK SHALL AVOID ARCHITECTURAL OPENINGS AND SHALL BE RUN CONCEALED UNLESS OTHERWISE NOTED. 10. DUCTWORK SHALL MAINTAIN A CLEARANCE OF 1" MINIMUM FROM ALL COMBUSTIBLE SURFACES. 11. ALL DUCT SIZES SHOWN REPRESENT CLEAR INSIDE DIMENSIONS UNLESS OTHERWISE NOTED. WHERE DUCT LINING OCCURS, INCREASE DUCT SIZE INDICATED TO SUIT. 12. CONTRACTOR SHALL VISIT SITE, AND FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND ACTUAL CONDITIONS SHALL BE SUBMITTED IN WRITING TO THE OWNERS' REPRESENTATIVE PRIOR TO BID. 13. ROOF MOUNTED DUCTWORK SHALL BE SLOPED TO SHED WATER. 14. ALL EQUIPMENT INSTALLED WITH SEISMIC VIBRATION ISOLATORS SHALL HAVE A MINIMUM 2" STATIC DEFLECTION. 15. REFRIGERANT PIPING SHALL BE SIZED AS RECOMMENDED BY THE MANUFACTURER. 16. PROVIDE COMBINATION FIRE/SMOKE DAMPERS AT ALL PENETRATIONS THROUGH FIRE RATED SHAFTS AND SEPARATIONS PER CALIFORNIA STATE FIRE MARSHAL REQUIREMENTS. 17. THE DRAWINGS REPRESENT THE DIAGRAMMATIC GRAPHICAL REPRESENTATION OF THE SCOPE OF WORK AND SHOULD NOT BE USED SOLELY TO DETERMINE SCOPE. CONTRACTORS SHALL BID THE ENTIRE SET OF CONTRACT DOCUMENTS INCLUDING CROSS DISCIPLINE INFORMATION AND WRITTEN SPECIFICATIONS. ALL BIDS BASED UPON DRAWING INFORMATION ONLY CAN BE ASSUMED TO BE INCOMPLETE AND INCONCLUSIVE TO DETERMINE ENTIRE SCOPE OF WORK. 18. AIR MOVING SYSTEMS SUPPLYING IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN BUILDINGS SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. SHUTOFFS SHALL STOP THE AIR-MOVING EQUIPMENT WHEN SMOKE IS DETECTED IN A SUPPLY-AIR DUCT OR WHEN SMOKE IS DETECTED IN ROOMS SERVED BY THE SYSTEM. EXCEPTIONS: (1) ROOMS HAVE A DIRECT EXIT TO THE EXTERIOR OF THE BUILDING, OR (2) SYSTEMS ARE DESIGNED FOR SMOKE CONTROL (SEC. 608, 2019 CMC) 19. CONTRACTOR SHALL VERIFY VOLTAGES AND ALL OTHER ELECTRICAL CHARACTERISTICS WITH ELECTRICAL PRIOR TO ORDERING EQUIPMENT. 20. DESIGN AND EQUIPMENT PERFORMANCE ARE BASED ON THE EQUIPMENT SCHEDULED AND SPECIFIED HEREIN. ANY ALTERATIONS OR SUBSTITUTIONS OF ANY EQUIPMENT SHALL BE SUBMITTED, REVIEWED AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO ORDERING OF EQUIPMENT. 21. PROVIDE LINE OR LOW VOLTAGE POWER WIRING FOR ALL CONTROLS. COORDINATE CONTROL SYSTEM POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR INCLUDING DAMPER MOTORS, CONTROL PANELS AND ALL DEVICES REQUIRING POWER. ALL WIRING AND COMPONENTS SHALL BY INSTALLED IN STRICT ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE LATEST EDITION. 22. COORDINATE FINAL ELECTRICAL AMPERAGES AND VOLTAGES WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT. 23. FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS, PER 2019 CMC 603.4.1. 24. CALIFORNIA ENERGY CODE ACCEPTANCE TESTING: THE CALIFORNIA ENERGY CODE REQUIRES ACCEPTANCE TESTING ON MECHANICAL SYSTEMS. THE REQUIRED TESTS ARE INDICATED ON THE TITLE 24 DOCUMENTATION FORMS. ACCEPTANCE TESTING SHALL BE PERFORMED BY A CALIFORNIA CERTIFIED ACCEPTANCE TEST TECHNICIAN. ANY TESTS THAT DO NOT PASS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW. ALL NOTED ACCEPTANCE TESTING MUST BE PERFORMED PRIOR TO BENEFICIAL OCCUPANCY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ACCEPTANCE TESTING AND SUBMIT COMPLETED ACCEPTANCE TEST FORMS TO THE AUTHORITY HAVING JURISDICTION. 25. DRAWINGS, SPECIFICATIONS, NOTES AND CALCULATIONS ARE FOR PERMIT SUBMITTAL ONLY TO THE AUTHORITY HAVING JURISDICTION. PLANS ARE NOT INTENDED FOR CONSTRUCTION, BIDDING AND/OR ESTIMATING UNTIL STAMPED AND SIGNED BY A LICENSED MECHANICAL ENGINEER AND THIS NOTE IS REMOVED. 26. PROVIDE ALL CONTROL WIRING AND DEVICES AS REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM. ALL WIRING AND DEVICES SHALL BE IN STRICT ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL SUBCONTRACTOR.

DOCUMENT LIST

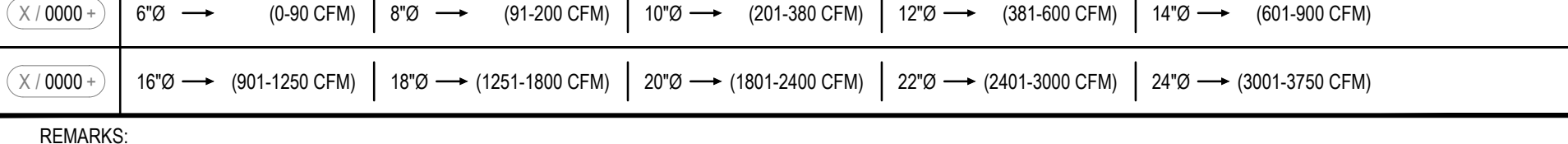
Table with 2 columns: #, REVISION, DATE. Row 1: 1, PLAN CHECK RESPONSE, 05/21/2024.

HVAC NOTES, LEGEND, SCHEDULES AND ABBREVIATIONS

- M0.01 HVAC NOTES, LEGEND, SCHEDULES AND ABBREVIATIONS M0.02 HVAC SPECIFICATIONS M0.03 HVAC SPECIFICATIONS M1.01 HVAC DEMOLITION PLAN - GROUND FLOOR M1.02 HVAC DEMOLITION PLAN - ROOF M1.03 HVAC PLAN - GROUND FLOOR M1.04 HVAC PLAN - ROOF M5.01 HVAC DETAILS

LOCAL AIR OUTLET SCHEDULE

Table with 5 columns: TAG #, MANUFACTURER, TYPE, NOTES, REMARKS. Rows for S/L (STEEL, 4-WAY BLOW) and R/L (ALUMINUM, 3/4" BLADE SPACING) and E/L (ALUMINUM, 3/4" BLADE SPACING).



REMARKS: 1. REFER TO CHART IMMEDIATELY ABOVE FOR BRANCH SIZING. 2. SECURE DAMPER TO REDUCE VIBRATION. 3. ALL OUTLETS TO BE PROVIDED WITH INSULATED SHEET METAL CAN (FULL SIZE) ON TOP OF OUTLET (1/2" INSULATION). 4. SUBMIT COLOR PALETTE TO ARCHITECT/OWNER. OPPOSED BLADE BALANCING DAMPER, ADJUSTABLE THROUGH FACE OF GRILLE.

PACKAGED HEAT PUMP ROOFTOP UNIT SCHEDULE

Table with 20 columns: TYPE #, MANUFACTURER MODEL #, SERVICE, S/A CFM, O/A CFM, DCV CFM, E.S.P. IN.W.C., BHP, ECONOMISER, PWD EXH, EER, IEER, COP47, COP17, COOLING (MBH) TC, SC, MBH, ELEC. HEAT KW, MBH, ELECTRICAL DATA VIB/Hz, MCA, MOCP, WEIGHT LBS, REMARKS. Rows for RT 1 and RT 2.

- REMARKS: *RATED AT 47°F DB AMBIENT 1. HORIZONTAL DISCHARGE / RETURN DUCT CONNECTIONS 2. HINGED ACCESS DOORS 3. THROUGH-THE-BASE ELECTRICAL CONNECTIONS 4. 7-DAY PROGRAMMABLE THERMOSTAT 5. SUPPLY/RETURN DUCT SMOKE DETECTOR 6. PHASE MONITOR ACCESSORY 7. COMPRESSOR DELAY CONTROL CIRCUIT 8. DRY BULB ECONOMIZER, BAROMETRIC RELIEF 9. MICROMETL ECH-SRT12CB ECONOMIZER WITH ULTRA LOW LEAK DAMPERS AND HONEYWELL JADE W7220 ELECTROMECHANICAL CONTROLLER WITH ECONOMISER FAULT DETECTION AND DIAGNOSTICS 10. R410A SCROLL COMPRESSOR, 2 STAGE COOLING 11. SINGLE POINT POWER CONNECTION KIT 12. ELECTRIC RESISTANCE HEATER 13. UNPOWERED CONVENIENCE OUTLET 14. DISCONNECT, S.E.D. FOR ALL ADDITIONAL INFORMATION. 15. PROVIDE MERV 13 FILTERS 16. 14" INSULATED CURB 17. MEDIUM STATIC BELT MOTOR 18. [RT-1 ONLY] PROVIDE DEMAND CONTROL VENTILATION SEQUENCING. SET MINIMUM OCCUPIED MODE VENTILATION REQUIRED BY DCV SEQUENCE TO SCHEDULED VALUE. PROVIDE WALL-MOUNTED CO2 SENSOR 19. [RT-1 ONLY] SINGLE ZONE VAV FAN SPEED CONTROL 20. MICROMETL CRWB-SRT12HA-1411 WELDED STRUCTURALLY CALCULATED CURB.

EXTERIOR DUCT SPECIFICATION

ROOF-MOUNTED EXTERIOR DUCTWORK TO BE CONSTRUCTED OF PREFABRICATED PHENOLIC DUCTWORK WITH UV-STABLE VINYL CLADDING AND MINIMUM R-8 INSULATION. BASIS OF DESIGN THERMADUCT.

CONTRACTOR TO VISIT SITE AND PROVIDE FIELD MEASUREMENTS OF PROPOSED DUCT ROUTING, TO BE PROVIDED TO PREFABRICATED DUCT MANUFACTURER FOR SPOOLING. PROVIDE SHOP DRAWINGS DETAILING ROUTING OF EXTERIOR DUCTWORK AND ASSOCIATED ROOF-MOUNTED SUPPORTS (BOTH EXISTING SUPPORT RAILS AND NEW). SPECIFY WHICH DUCT SECTIONS ARE PRE-FABRICATED VERSUS SITE-ASSEMBLED. SPECIFY WHICH DUCT SECTIONS EXCEED 20 LB / FT AND NOTIFY MEOB AND SEOR.

REFER TO M0.03 PART 233116 - PHENOLIC DUCTS SPECIFICATION FOR ADDITIONAL INFORMATION.

EXHAUST FAN SCHEDULE

Table with 11 columns: TAG #, MANUFACTURER MODEL #, CFM, ESP (IN. WC), RPM, WATTS, HP, BHP, SONES, VOLTS-Ø-Hz, WEIGHT (LBS), REMARKS. Rows for EF 1 and EF 2.

- REMARKS: 1. UL 507 LISTED 2. SOLID STATE SPEED CONTROL, MOUNTED TO FAN 3. ROOF CURB - 14" HIGH 4. NEMA-1 DISCONNECT SWITCH UNDER DOME OF FAN 5. PLUG DISCONNECT SWITCH 6. GREENHECK WC-8 WALL CAP 7. VIBRATION ISOLATION KIT 8. INTERLOCK FAN OPERATION WITH TIMELOCK, REFER TO TIMELOCK SPECIFICATION.



County of Sonoma 2300 County Center Drive, Suite A220 Santa Rosa, CA 95403

Sonoma Veteran's Memorial Hall HVAC Tenant Improvement

126 1st Street West Sonoma, CA 95476

Table for Approvals and Drawing Title. Includes columns for #, REVISION, DATE and DRAWING TITLE. Also includes a table for Issue Date, Issue Type, Drawn By, Checked By, Scale, Project No.

M0.01

Reviewed for Code Compliance - Permit Sonoma Paul Marquez Date Stamped: 7/9/2024 Permit #: BLD23-7808 Plans Examiner:

230000 - GENERAL REQUIREMENTS
SECTION 23 00 00
GENERAL REQUIREMENTS - HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)
PART 1 - GENERAL
1.01 DESCRIPTION
A. The requirements of this section apply to all sections of Division 23.

230000 - GENERAL REQUIREMENTS
B. The work shall comply with the latest editions of the following guidelines and standards:
1. ABC Associated Air Balance Council
2. AMCA Air Movement and Control Association
3. ANSI American National Standards Institute
4. ARI American Refrigeration Institute
5. ASHRAE American Society of Heating Refrigerating and Air Conditioning Engineers
6. ASME American Society of Mechanical Engineers
7. ASTM American Society for Testing and Materials
8. NFPA National Fire Protection Association
9. SMACNA Sheetmetal and Air-Conditioning Contractors National Association
10. UL Underwriters Laboratories

230001 - COORDINATION
SECTION 23 00 01
COORDINATION
PART 1 - GENERAL
1.01 SUMMARY
A. Section Includes: Provision of coordination of the Work of the Contract.

230001 - COORDINATION
A. Failure of Contractor to provide adequate coordination and Coordination Drawings shall not be grounds for adjustment of Project cost or extension of time.
1.06 STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL COORDINATION
A. Use Coordination Drawings of structural, mechanical, plumbing and electrical Work, together with shop drawings and layout drawings of affected Work to check, coordinate and integrate the Work to prevent interferences.

230593 - TAB
SECTION 23 05 93
TESTING, ADJUSTING AND BALANCING
PART 1 - GENERAL
1.01 DESCRIPTION OF WORK
A. Work Included: This Section covers requirements for testing, adjusting, and balancing work for the air distribution systems and associated equipment described herein.

230593 - TAB
2.02 PLUGS
A. Provide plastic plugs to seal holes drilled in ductwork for test purposes.
2.03 INSULATION REPAIR MATERIAL
A. Provide for repair of insulation removed or damaged for TAB work.

15000 inc.
heating, ventilation, air conditioning • plumbing design and engineering
6085 STATE FARM DR. #130 phone: 707.577.0363
ROHNETT PARK, CA 94928 fax: 707.577.0364



Client: County of Sonoma, 2300 County Center Drive, Suite A220, Santa Rosa, CA 95403
Project Title: Sonoma Veteran's Memorial Hall HVAC Tenant Improvement, 126 1st Street West, Sonoma, CA 95476
Approvals: # REVISION DATE, 1 PLAN CHECK RESPONSE 05/21/2024
Drawing Title: HVAC SPECIFICATIONS
Issue Date: 10/23/2023, Issue Type: OWNER REVIEW, Drawn By: RLY, Checked By: MJT/JMT, Scale: AS NOTED, Project No: 1817.0.00

REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA
Date Stamp: 7/9/2024, Permit #: BLD23-7808, Plans Examiner: Paul Marquez

230700 - INSULATION
SECTION 23 07 00
THERMAL INSULATION FOR MECHANICAL SYSTEMS
PART 1 - GENERAL
1.01 DESCRIPTION
A. The work covered under this section consists of providing all necessary labor, supervision, materials, equipment and services to completely execute the complete HVAC system insulation work for equipment, piping, ductwork and other items where shown on the drawings and required herein.

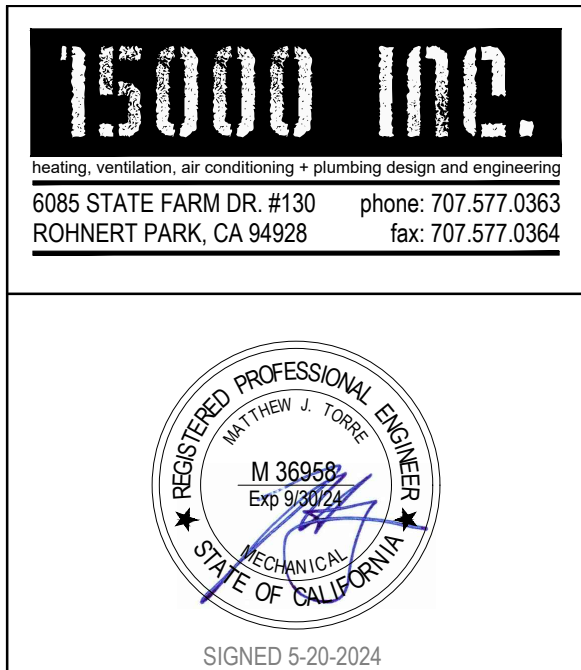
232300 - REFRIGERANT PIPING
SECTION 23 23 00
REFRIGERANT PIPING
PART 1 - GENERAL
1.01 DESCRIPTION
A. Provide complete piping, specialties, installation and tests in conformity with applicable codes and authorities having jurisdiction for the Work as required by this Section for HVAC equipment indicated on the Contract Drawings and contained herein.

233113 - METAL DUCTS
SECTION 23 31 13
METAL DUCTS
PART 1 - GENERAL
1.01 DESCRIPTION
A. Provide complete materials, equipment, fabrications, installation and tests in conformity with applicable codes and authorities having jurisdiction for the following:
1. Ductwork and Plenums
2. Balancing dampers
3. Backdraft dampers
4. All duct accessories

233113 - METAL DUCTS
1. Drawings show the general layout of ductwork and accessories but do not show all required fittings and offsets that may be necessary to connect ducts to equipment, boxes, diffusers, grilles, etc., and to coordinate with other trades. Fabricate ductwork based on field measurements. Provide all necessary fittings and offsets at no additional cost to the owner. Coordinate with other trades for space available and relative location of HVAC equipment and accessories on ceiling grid. Duct sizes on the drawings are internal dimensions which shall be altered by Contractor to other dimensions with the same air handling characteristics where necessary to avoid interferences and clearance difficulties.

233116.16 - PHENOLIC DUCTS
SECTION 23 31 16
PHENOLIC DUCTS
PART 1 - GENERAL
1.1 SUMMARY
Section includes:
1. Non-Fibrous, Closed Cell, Phenolic Ductwork for exterior applications
B. This section does not include:
1. Air passages rated over a continuous internal static pressure of 10" w.g. positive, 10" negative, or with test pressure rating over 10" w.g. starting and 10" w.g. negative (as documented on product labeling).

233713 - DIFFUSERS/REGISTERS
SECTION 23 37 13
DIFFUSERS, REGISTERS AND GRILLES
PART 1 - GENERAL
1.01 DESCRIPTION
A. Provide all air outlets, inlets, grilles, registers and diffusers except when integral with manufacturing pieces of equipment. Outlets and inlets shall have, as a minimum, throw and noise criteria ratings for each size device as listed in manufacturers current data, rated as required by the applicable publications and standards.



County of Sonoma
2300 County Center Drive, Suite A220
Santa Rosa, CA 95403
Sonoma Veteran's Memorial Hall HVAC Tenant Improvement
126 1st Street West
Sonoma, CA 95476

CLIENT
PROJECT TITLE
PROJECT NUMBER

3.01 EXECUTION
A. Install air distribution in accordance with manufacturer's written installation instructions.

238000 - HVAC EQUIPMENT
SECTION 23 80 00
DECENTRALIZED HVAC EQUIPMENT
PART 1 - GENERAL
1.01 DESCRIPTION
A. This Section covers the furnishing and installation of Heating, Ventilating and Air Conditioning (HVAC) equipment as indicated on the contract drawings, schedules and as specified herein.

END OF SECTION

END OF SECTION

END OF SECTION

END OF SECTION

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APPROVALS table with columns for #, REVISION, DATE, PLAN CHECK RESPONSE, and DRAWING TITLE.

DRAWING TITLE table with columns for #, REVISION, DATE, PLAN CHECK RESPONSE, SCALE, PROJECT No., and DRAWING.

Reviewed for Code Compliance - Permit Sonoma
Date Stamp: 7/9/2024 4:24 PM
Printed: 7/9/2024 4:24 PM
Reviewer: Paul Marquez

M0.03



HVAC SHEET NOTES - DEMOLITION

NOTE: NOT ALL NOTES USED ON EACH SHEET

- ① CEILING AIR TERMINAL - DISCONNECT AND REMOVE EXISTING SUPPLY DIFFUSER / RETURN GRILLE / EXHAUST GRILLE, AND ASSOCIATED DUCTWORK ABOVE CEILING. PATCH AND REPAIR CEILING TO MATCH EXISTING ADJACENT SURFACES.
- ② FURNACE AIR HANDLER - DISCONNECT AND REMOVE EXISTING ROOF-MOUNTED AIR HANDLING UNIT, ASSOCIATED DUCT FURNACES, AND ROOF-MOUNTED DUCTWORK. DISCONNECT AND REMOVE EXISTING ROOF CURBS, PATCH, REINSULATE, AND SEAL ROOF PENETRATIONS TO MATCH EXISTING ADJACENT SURFACES. DISCONNECT AND REMOVE EXISTING THERMOSTAT AND CONTROL WIRING. REMOVE EXISTING GAS PIPING TO LOCAL ROOF PENETRATION AT CAP.
- ③ EXISTING DUCT/CONDUIT ROOF SUPPORT RAILS ARE TO REMAIN AND BE RE-USED. PROVIDE REPLACEMENT SUPPORT RAIL SHEETMETAL CAPS FOR EXISTING DAMAGED RAILS OR RAILS DAMAGED IN REMOVAL OF DUCT SYSTEM.
- ④ EXHAUST FAN - EXISTING FANS TO REMAIN AND BE RE-USED.
- ⑤ EXHAUST FAN (RESTROOM) - DISCONNECT AND REMOVE EXISTING ROOF-MOUNTED RESTROOM EXHAUST FANS AND ASSOCIATED DUCTWORK. DISCONNECT AND REMOVE EXISTING ROOF CURB, PATCH REINSULATE AND SEAL ROOF OPENINGS TO MATCH EXISTING ADJACENT SURFACES.
- ⑥ EXHAUST FAN (RESTROOM) - DISCONNECT AND REMOVE EXISTING ROOF-MOUNTED RESTROOM EXHAUST FANS AND ASSOCIATED DUCTWORK. DISCONNECT AND REMOVE EXISTING ROOF CURB, EXISTING ROOF OPENING TO BE RE-USED IN NEW FAN INSTALLATION.
- ⑦ RELIEF FAN (LOUNGE) - DISCONNECT AND REMOVE EXISTING RELIEF FAN AND ASSOCIATED DUCTWORK AND AIR TERMINALS. DISCONNECT AND REMOVE EXISTING ROOF CURB, PATCH REINSULATE AND SEAL ROOF OPENINGS TO MATCH EXISTING ADJACENT SURFACES.
- ⑧ DUCT PENETRATION - EXISTING DUCT CURBS TO REMAIN AND BE RE-USED. REMOVE SHEETMETAL CAPS AS REQUIRED FOR NEW DUCT SIZES AND REPLACE DUCT CAPS. SEAL WEATHERTIGHT, REFER TO DETAIL.

15000 INC.
 Heating, ventilation, air conditioning • plumbing design and engineering
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 ROHNERT PARK, CA 94928 fax: 707.577.0364



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Sonoma Veteran's Memorial Hall HVAC Tenant Improvement
 126 1st Street West
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APPROVALS

#	REVISION	DATE
1	PLAN CHECK RESPONSE	05/21/2024

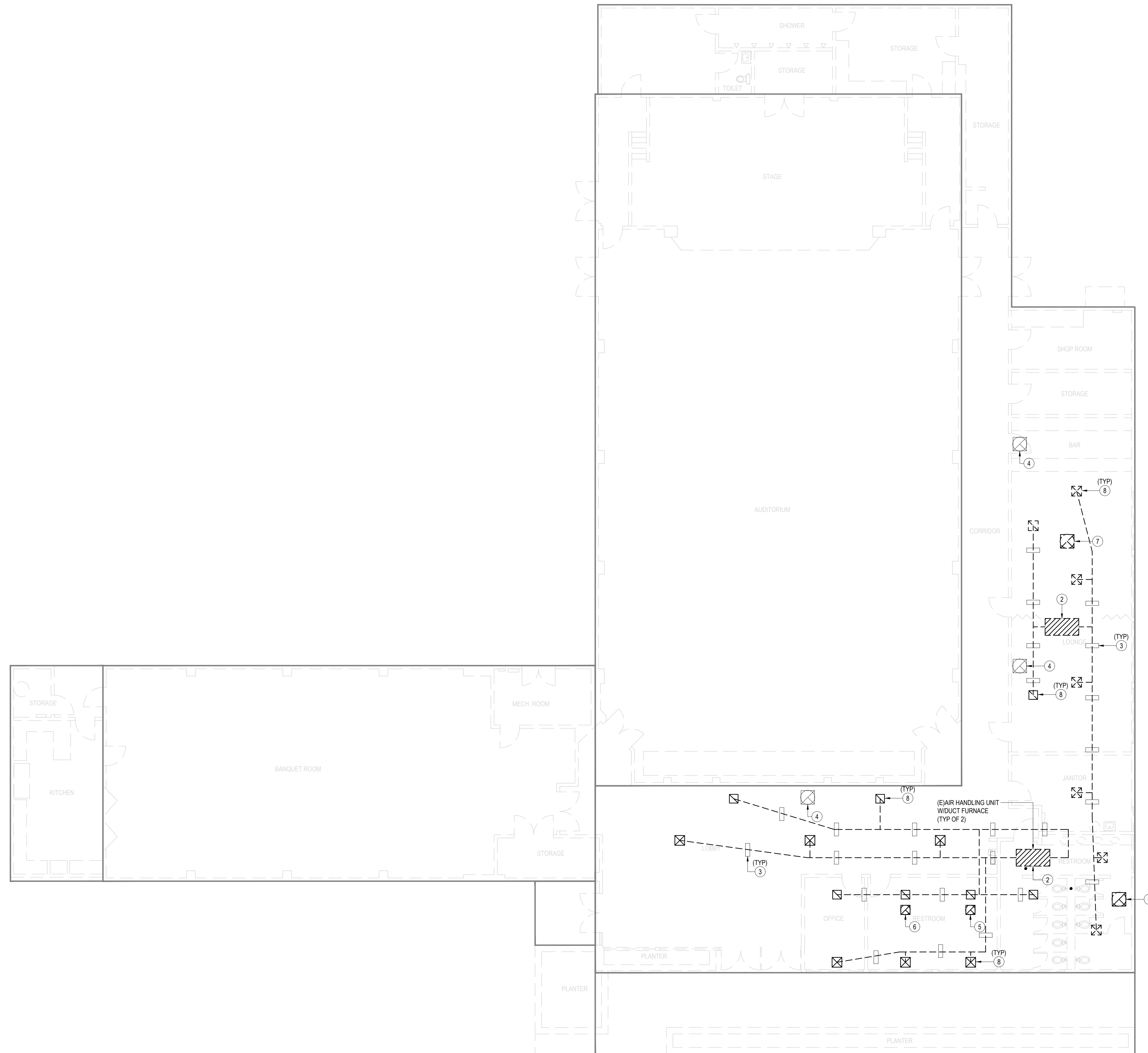
DRAWING TITLE
HVAC DEMOLITION PLAN - GROUND FLOOR

ISSUE DATE	10/23/2023
ISSUE TYPE	OWNER REVIEW
DRAWN BY	RLY
CHECKED BY	MJT/JMT
SCALE	AS NOTED
PROJECT No.	1817.0.00

DRAWING
M1.01

1 HVAC DEMOLITION PLAN - GROUND FLOOR
 SCALE: 1/4"=1'-0"

Date Stamp: 7/9/2024 Permit #: BLD23-7808 Plans Examiner: Paul Marquez
REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA



HVAC SHEET NOTES - DEMOLITION

- NOTE: NOT ALL NOTES USED ON EACH SHEET
- 1 CEILING AIR TERMINAL - DISCONNECT AND REMOVE EXISTING SUPPLY DIFFUSER / RETURN GRILLE / EXHAUST GRILLE, AND ASSOCIATED DUCTWORK ABOVE CEILING. PATCH AND REPAIR CEILING TO MATCH EXISTING ADJACENT SURFACES.
 - 2 FURNACE AIR HANDLER - DISCONNECT AND REMOVE EXISTING ROOF-MOUNTED AIR HANDLING UNIT, ASSOCIATED DUCT FURNACES, AND ROOF-MOUNTED DUCTWORK. DISCONNECT AND REMOVE EXISTING ROOF CURBS, PATCH, REINSULATE, AND SEAL ROOF PENETRATIONS TO MATCH EXISTING ADJACENT SURFACES. DISCONNECT AND REMOVE EXISTING THERMOSTAT AND CONTROL WIRING. REMOVE EXISTING GAS PIPING TO LOCAL ROOF PENETRATION AT CAP.
 - 3 EXISTING DUCT/CONDUIT ROOF SUPPORT RAILS ARE TO REMAIN AND BE RE-USED. PROVIDE REPLACEMENT SUPPORT RAIL SHEETMETAL CAPS FOR EXISTING DAMAGED RAILS OR RAILS DAMAGED IN REMOVAL OF DUCT SYSTEM.
 - 4 EXHAUST FAN - EXISTING FANS TO REMAIN AND BE RE-USED.
 - 5 EXHAUST FAN (RESTROOM) - DISCONNECT AND REMOVE EXISTING ROOF-MOUNTED RESTROOM EXHAUST FANS AND ASSOCIATED DUCTWORK. DISCONNECT AND REMOVE EXISTING ROOF CURB, PATCH REINSULATE AND SEAL ROOF OPENINGS TO MATCH EXISTING ADJACENT SURFACES.
 - 6 EXHAUST FAN (RESTROOM) - DISCONNECT AND REMOVE EXISTING ROOF-MOUNTED RESTROOM EXHAUST FANS AND ASSOCIATED DUCTWORK. DISCONNECT AND REMOVE EXISTING ROOF CURB, EXISTING ROOF OPENING TO BE RE-USED IN NEW FAN INSTALLATION.
 - 7 RELIEF FAN (LOUNGE) - DISCONNECT AND REMOVE EXISTING RELIEF FAN AND ASSOCIATED DUCTWORK AND AIR TERMINALS. DISCONNECT AND REMOVE EXISTING ROOF CURB, PATCH REINSULATE AND SEAL ROOF OPENINGS TO MATCH EXISTING ADJACENT SURFACES.
 - 8 DUCT PENETRATION - EXISTING DUCT CURBS TO REMAIN AND BE RE-USED. REMOVE SHEETMETAL CAPS AS REQUIRED FOR NEW DUCT SIZES AND REPLACE DUCT CAPS. SEAL WEATHERTIGHT, REFER TO DETAIL.

15000 INC.
 Heating, ventilation, air conditioning • plumbing design and engineering
 6085 STATE FARM DR. #130 phone: 707.577.0363
 ROHNERT PARK, CA 94928 fax: 707.577.0364



CLIENT
County of Sonoma
 2300 County Center Drive, Suite A220
 Santa Rosa, CA 95403

PROJECT TITLE
Sonoma Veteran's Memorial Hall HVAC Tenant Improvement
 126 1st Street West
 Sonoma, CA 95476

APPROVALS

#	REVISION	DATE
1	PLAN CHECK RESPONSE	05/21/2024

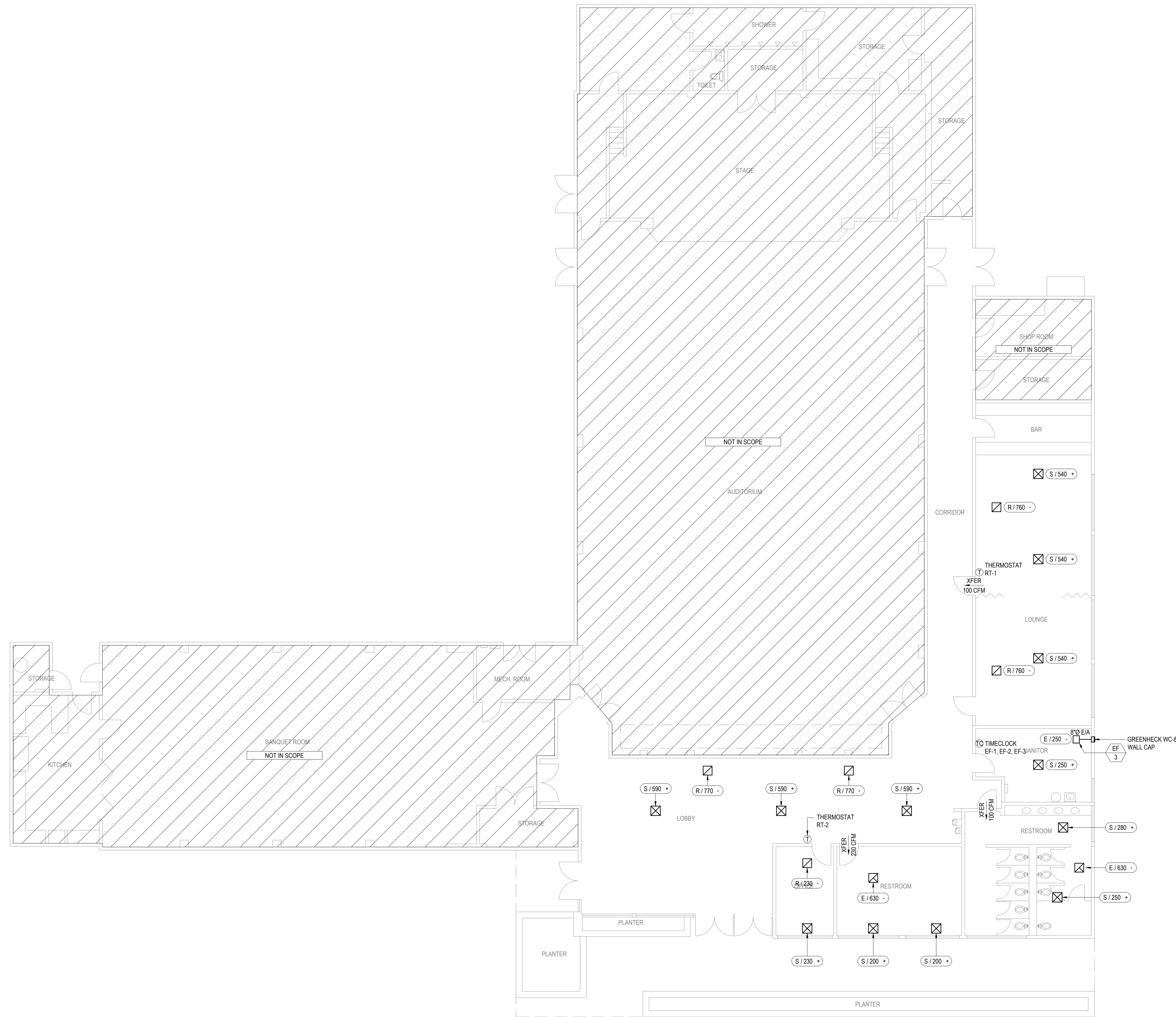
DRAWING TITLE
HVAC DEMOLITION PLAN - ROOF

ISSUE DATE	10/23/2023
ISSUE TYPE	OWNER REVIEW
DRAWN BY	RLY
CHECKED BY	MJT/JMT
SCALE	AS NOTED
PROJECT No.	1817.0.00

DRAWING
M1.02

1 HVAC DEMOLITION PLAN - ROOF
 SCALE: 1/4"=1'-0"

Date Stamped: 7/9/2024 Permit #: BLD23-7808 Plans Examiner: Paul Marquez
REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA

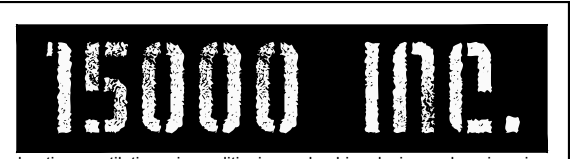


1 HVAC PLAN - GROUND FLOOR

SCALE: 1/4"=1'-0"

HVAC SHEET NOTES

- 1 EXTEND PVC PLUMBING VENT, FULL SIZE, BEYOND 10'-0" RADIUS OF MECHANICAL AIR INTAKE. PROVIDE PIPE SUPPORTS AT 8'-0" SPACING AS REQUIRED FOR EXTENSION.
- 2 3/4" PVC CONDENSATE TO LOCAL ROOF DRAIN. PROVIDE MINIMUM 1/4"/FT SLOPE ON DRAIN PIPING.
- 3 CONNECT TO (E) DUCT STUB ON ROOF. PROVIDE WITH ANCILLARY FITTINGS TO MAKE FINAL CONNECTION. FLASH AND SEAL WEATHERTIGHT TO MATCH SURROUNDING CONDITIONS.
- 4 ROUTE DUCTWORK ON ROOF, TYP. UON.



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SIGNED 5-20-2024

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County of Sonoma
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PROJECT TITLE
Sonoma Veteran's Memorial Hall HVAC Tenant Improvement

126 1st Street West
Sonoma, CA 95476

APPROVALS

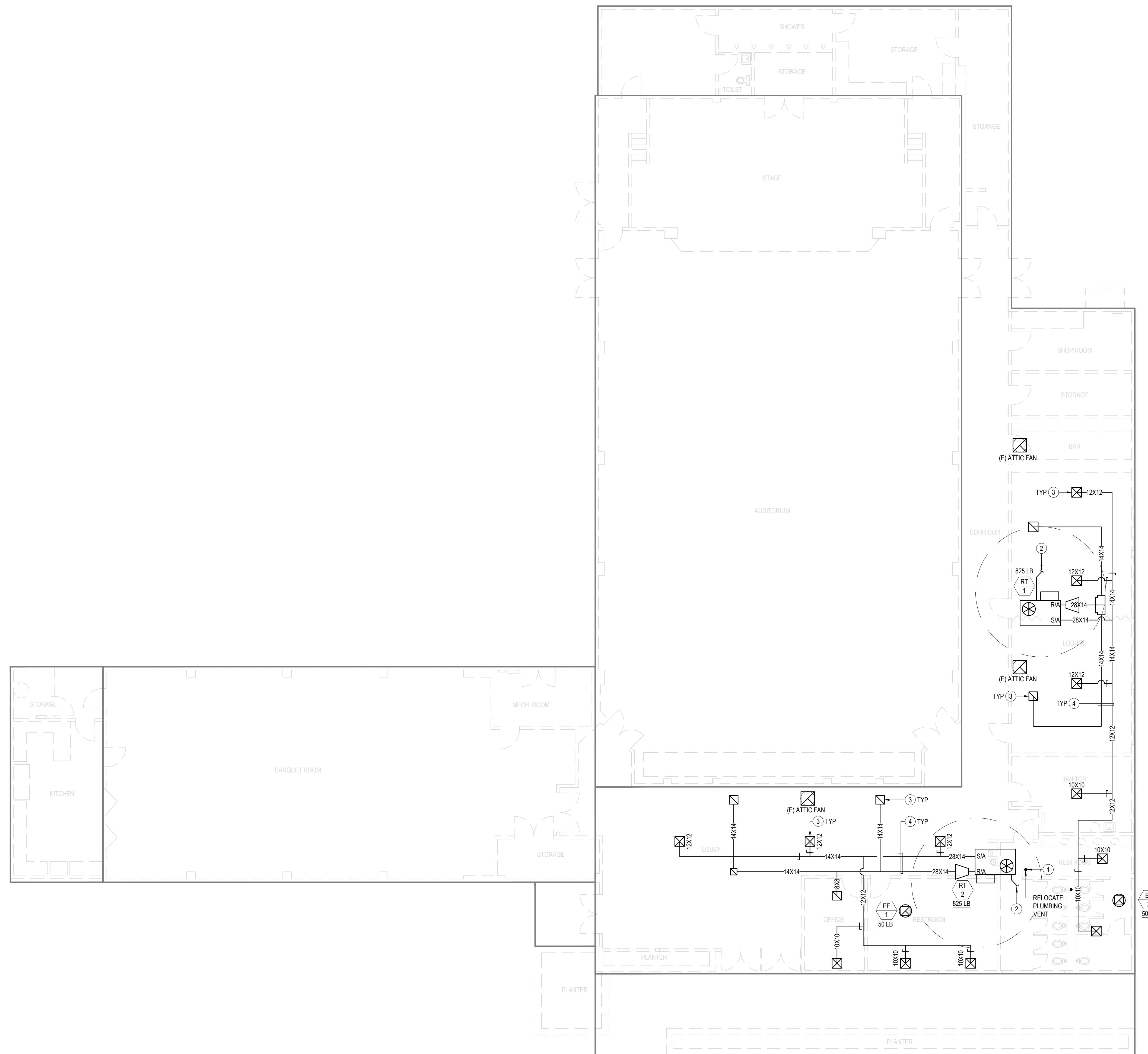
#	REVISION	DATE
1	PLAN CHECK RESPONSE	05/21/2024

DRAWING TITLE
HVAC PLAN - GROUND FLOOR

ISSUE DATE	10/23/2023
ISSUE TYPE	OWNER REVIEW
DRAWN BY	RLY
CHECKED BY	MJT/JMT
SCALE	AS NOTED
PROJECT No.	1817.0.00

DRAWING
M1.03

Date Stamped: 7/9/2024 Permit #: BLD23-7808 Plans Examiner: Paul Marquez
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- ### HVAC SHEET NOTES
- 1 EXTEND PVC PLUMBING VENT, FULL SIZE, BEYOND 10'-0" RADIUS OF MECHANICAL AIR INTAKE. PROVIDE PIPE SUPPORTS AT 8'-0" SPACING AS REQUIRED FOR EXTENSION.
 - 2 3/4" PVC CONDENSATE TO LOCAL ROOF DRAIN. PROVIDE MINIMUM 1/4" FT SLOPE ON DRAIN PIPING.
 - 3 CONNECT TO (E) DUCT STUB ON ROOF. PROVIDE WITH ANCILLARY FITTINGS TO MAKE FINAL CONNECTION. FLASH AND SEAL WEATHERTIGHT TO MATCH SURROUNDING CONDITIONS.
 - 4 ROUTE DUCTWORK ON ROOF, TYP. UON.

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PROJECT TITLE
Sonoma Veteran's Memorial Hall HVAC Tenant Improvement
 126 1st Street West
 Sonoma, CA 95476

APPROVALS

#	REVISION	DATE
1	PLAN CHECK RESPONSE	05/21/2024

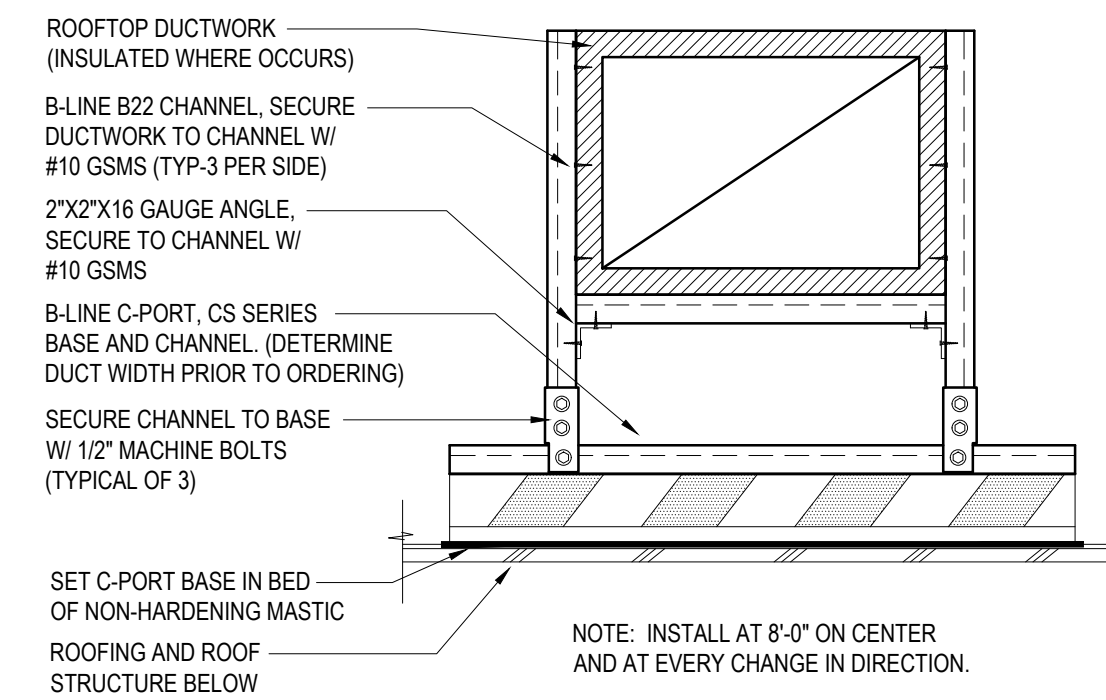
DRAWING TITLE
HVAC PLAN - ROOF

ISSUE DATE	10/23/2023
ISSUE TYPE	OWNER REVIEW
DRAWN BY	RLY
CHECKED BY	MJT/JMT
SCALE	AS NOTED
PROJECT No.	1817.0.00

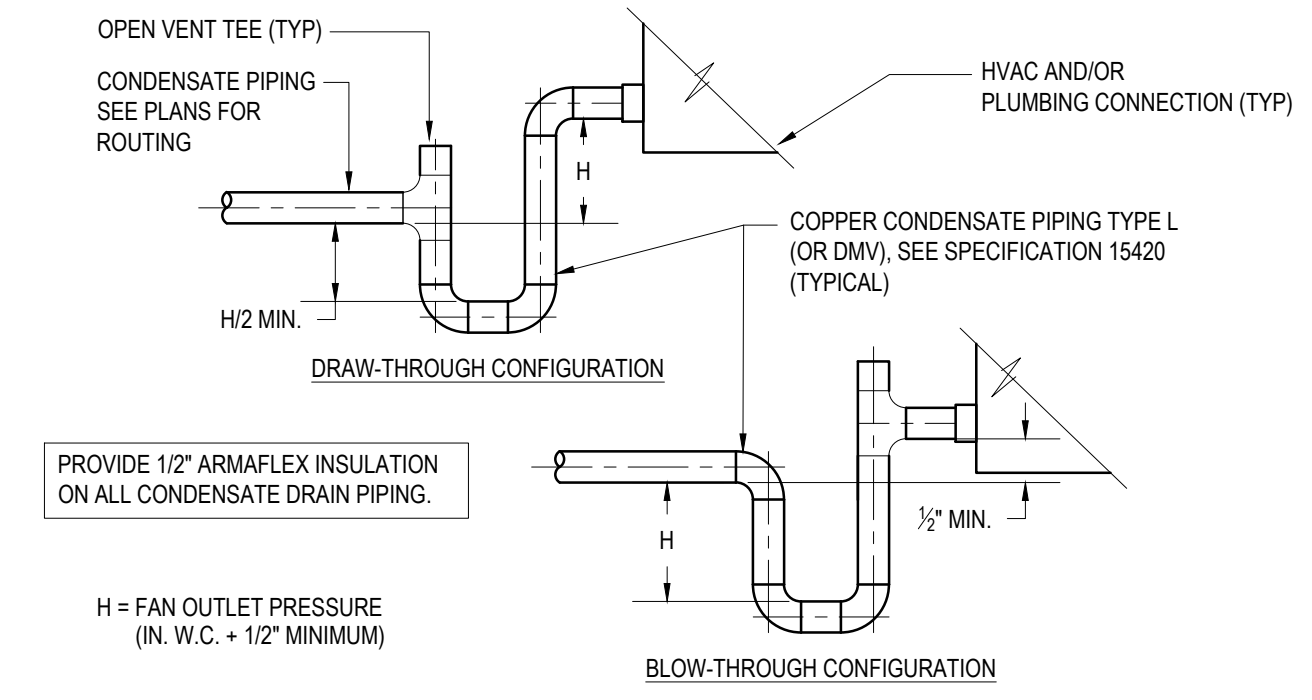
DRAWING
M1.04

1 HVAC PLAN - ROOF
 SCALE: 1/4"=1'-0"

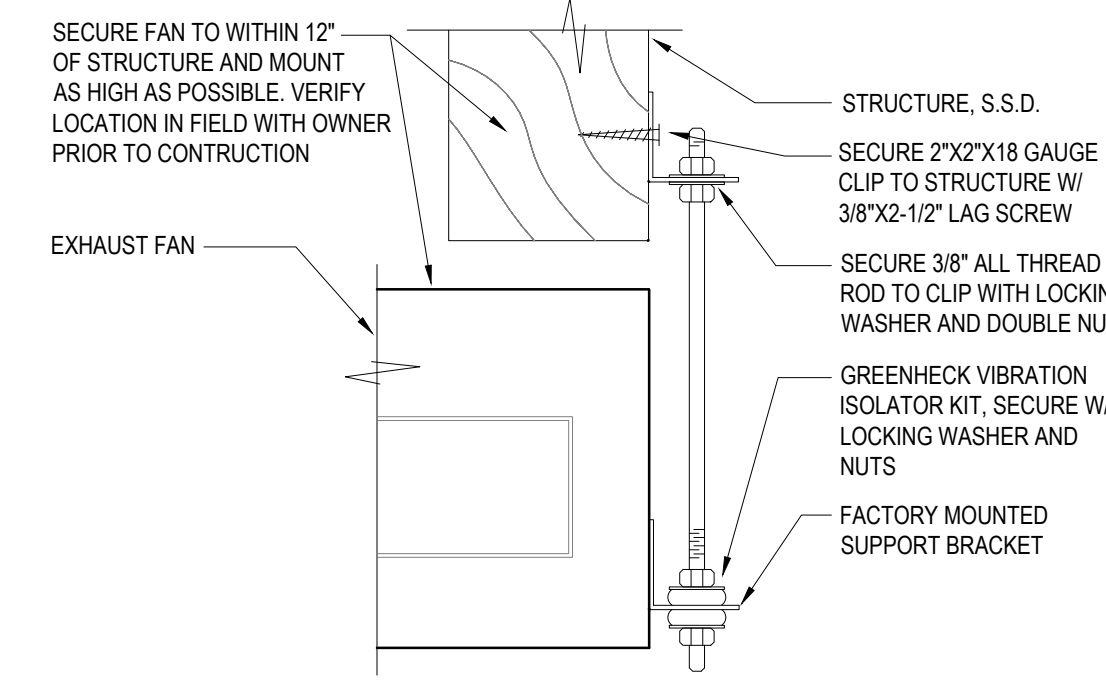
Date Stamped: 7/9/2024, Permit #: BLD23-7808, Plans Examiner: Paul Marquez
REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA



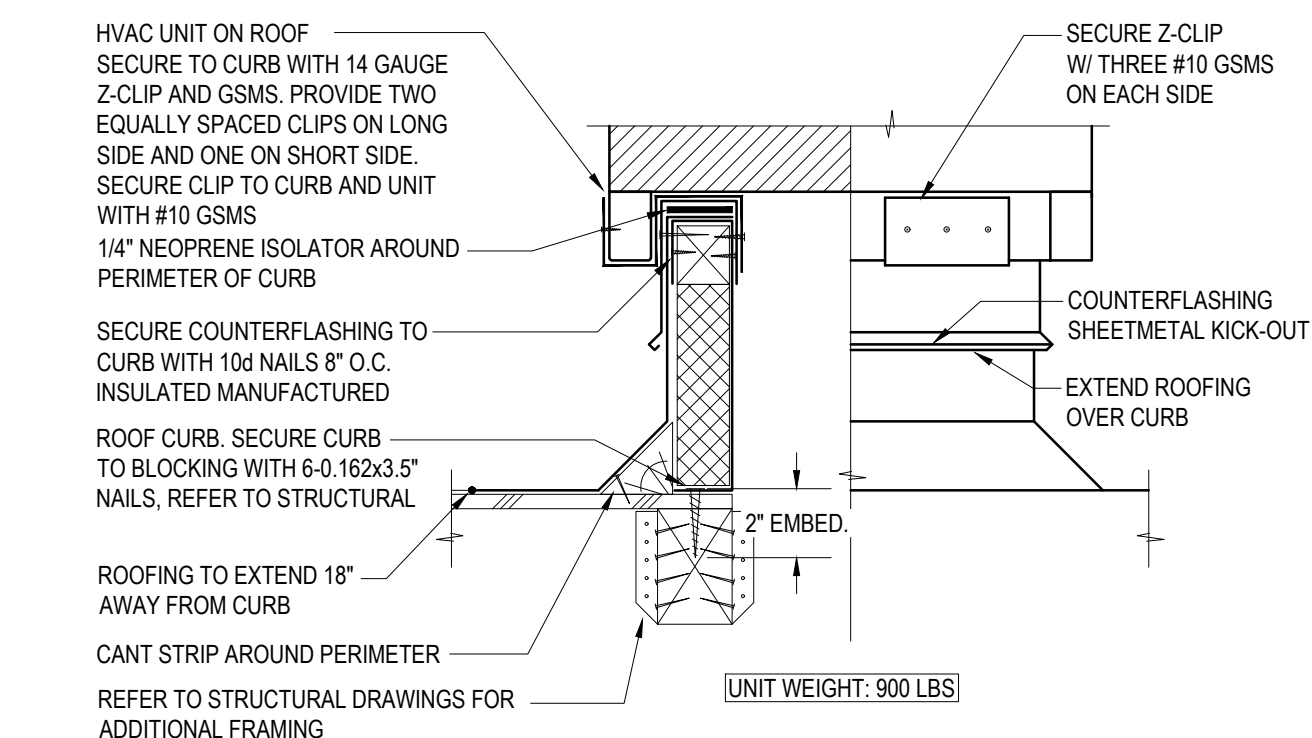
5 DUCT SUPPORT ON ROOF
SCALE: NONE



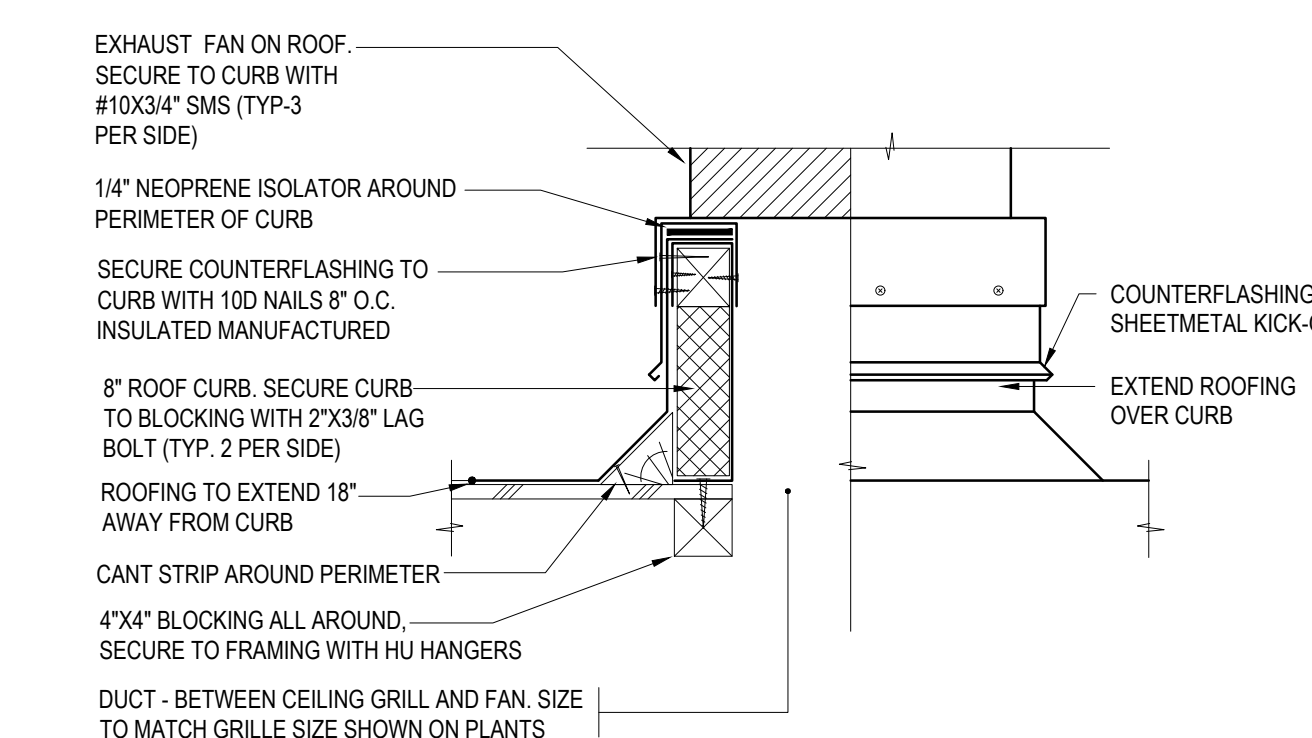
1 CONDENSATE DRAIN CONNECTION
SCALE: NONE



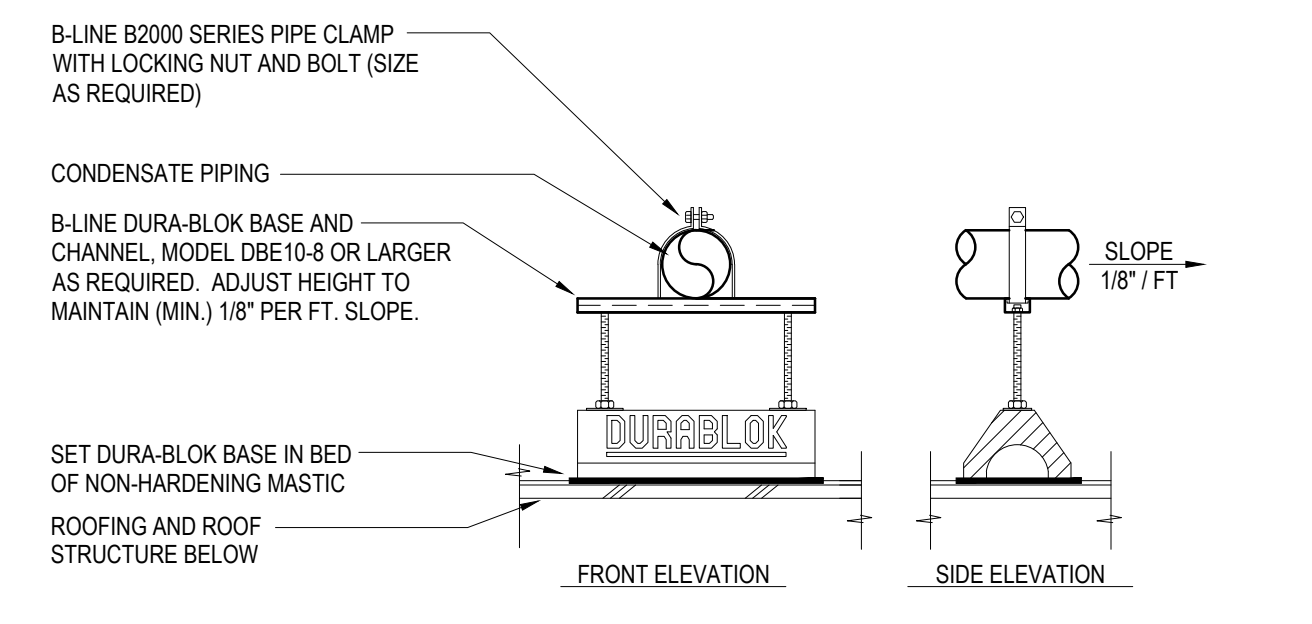
6 EXHAUST FAN MOUNTING DETAIL
SCALE: NONE



2 ROOFTOP HVAC UNIT MOUNTING DETAIL
SCALE: NONE. NOTE: REFER TO STRUCTURAL PLANS FOR FULL DETAILING.



3 ROOFTOP EXHAUST FAN MOUNTING DETAIL
SCALE: NONE



4 CONDENSATE PIPE SUPPORT ON ROOF
SCALE: NONE



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126 1st Street West
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APPROVALS

#	REVISION	DATE
1	PLAN CHECK RESPONSE	05/21/2024

DRAWING TITLE: HVAC DETAILS

ISSUE DATE	10/23/2023
ISSUE TYPE	OWNER REVIEW
DRAWN BY	RLY
CHECKED BY	MJT/JMT
SCALE	AS NOTED
PROJECT No.	1817.0.00

DRAWING: M5.01

Date Stamped: 7/9/2024 Permit #: BLD23-7808 Plans Examiner: Paul Marquez
REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06		07		08	09	10	11
					Equipment Sizing per Mechanical Schedule (kBtu/h)		Load Calculations ^{1,4}					
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3a1	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available ¹ 140.4(a) and 170.2(c)1	Heating Output ^{2,3}		Cooling Output ^{2,3}		Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)			
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)					
Lounge	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	63.2	65	26.96	66.13	55	168.95	114.81		
Front	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	63.2	65	26.96	67.54	55	159.21	100.79		

¹FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are exempt.
²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
³If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
⁴Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05		06		07	08	09
				Heating Mode	Cooling Mode	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency			
Name or Item Tag	Size Category (Btu/h)	Rating Condition (%)	Efficiency Unit							
Lounge	>=65,000 and <135,000		COP	3.4	3.6	EER	11	14.1	11.2	15
Front	>=65,000 and <135,000		COP	3.4	3.6	EER	11	14.1	11.2	15

C. COMPLIANCE RESULTS
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01	02	03	04	05	06	07	08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	Pumps 140.4(a), 170.2(c)4	Fans/Economizers 140.4(c), 140.4(e), 170.2(c)	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	Ventilation 120.1, 160.2	Terminal Box Controls 140.4(e), 170.2(c)4B	Distribution 120.3, 140.4(i), 160.2, 160.3	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table L)	(See Table L)	(See Table M)	COMPLIES

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
Lounge	1	Single zone	New/ Addition		<input type="checkbox"/>
Front	1	Single zone	New/ Addition		<input type="checkbox"/>

A. GENERAL INFORMATION

01 Project Location (city)	Sonoma	04 Total Conditioned Floor Area	3895
02 Climate Zone	2	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1

B. PROJECT SCOPE
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Wet System Components	<input checked="" type="checkbox"/> Dry System Components
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer
	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
	<input type="checkbox"/> System Piping	<input checked="" type="checkbox"/> Fan Systems
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> Cooling Towers	<input type="checkbox"/> Ductwork (existing to remain, altered or new)
	<input type="checkbox"/> Chillers	<input checked="" type="checkbox"/> Ventilation
	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/ Terminal Boxes

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass
Fan Energy Index (FEI)										
01 Name or Item Tag			02 FEI Exception				03 FEI			

I. SYSTEM CONTROLS
This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)², 120.2(c) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(e) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(d)
Lounge	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Total per 110.12	Included	NA: No thermostatic control
Front	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	NA: HRR dwelling unit

¹FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	Front	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,400	Site Elevation	70	Economizer	Fixed Temperature
Design															
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	2,400	557	MERV 13-16 Filter upstream of thermal conditioning equipment	2,400	334	Manufacturer provided	1.3					
Supply Fan Base Allowance (kW)		Exhaust/Return/Relief/Transfer Fan Base Allowance (kW)		Fan System Allowance (kW) ¹		1.33		Fan System Electrical Output (kW)		1.3					

¹FOOTNOTES: Fans serving spaces with design background noise goals below NC35
²Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
³Fan system allowance includes fan system base allowance.
⁴Filter pressure loss can only be counted once per fan system.
⁵Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
⁶Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document.

G. PUMPS
This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS
This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	Lounge	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,400	Site Elevation	70	Economizer	Fixed Temperature
Design															
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	2,400	557	MERV 13-16 Filter upstream of thermal conditioning equipment	2,400	334	Manufacturer provided	1.3					
Supply Fan Base Allowance (kW)		Exhaust/Return/Relief/Transfer Fan Base Allowance (kW)		Fan System Allowance (kW) ¹		1.33		Fan System Electrical Output (kW)		1.3					

J. VENTILATION AND INDOOR AIR QUALITY

Men's Restroom	Toilet, public	280	9	0	630	630	DCV	NA: Not required per §120.1(d)3
17	Total System Required Min OA CFM	494	18	Ventilation for this System Complies?	Yes		Occ Sensor	NA: Not required space type

¹FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system
²Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
³Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
⁴See Standards Tables 120.1-A and 120.1-B.
⁵For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
⁶120.1e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restaurants, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

K. TERMINAL BOX CONTROLS
This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)
This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

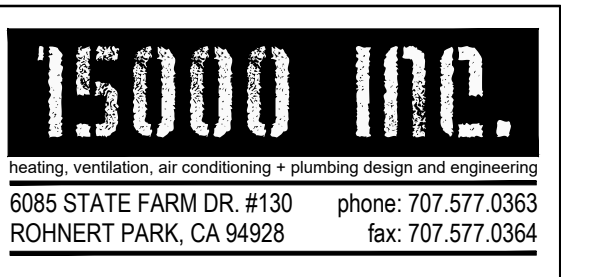
01	02	03
Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.	<input type="checkbox"/>	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.
Duct Leakage Testing	Lounge	NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?

J. VENTILATION AND INDOOR AIR QUALITY

Women's Restroom	Toilet, public	410	9	0	630	630	DCV	NA: Not required per §120.1(d)3		
17	Total System Required Min OA CFM	472	18	Ventilation for this System Complies?	Yes		Occ Sensor	NA: Not required space type		
System Name		Front	System Design OA CFM Airflow ¹	1124	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)2 ¹	Provided		
Space Name or Item Tag		Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Office	Office space	130				19.5	0	0	DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Lobby	Lobbies	530				265	0	0	DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Corridor	Corridor	1400				210	0	0	DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type

J. VENTILATION AND INDOOR AIR QUALITY
This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and §124.1(a)1(b)1/160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	02	03	04	05	06	07				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check this box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.							
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces							
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.							
Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems										
System Name		Lounge	System Design OA CFM Airflow ¹	1152	System Design Transfer Air CFM	0				
Space Name or Item Tag		Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM				
Lounge	Break room	945				472.5	0	0	DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Janitor	All others	200				0	0	50	DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type



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APPROVALS

#	REVISION	DATE
1	PLAN CHECK RESPONSE	09/21/2024

DRAWING TITLE

TITLE-24 DOCUMENTATION

ISSUE DATE: 10/23/2023
ISSUE TYPE: OWNER REVIEW
DRAWN BY: RLY
CHECKED BY: MJT/JMT
SCALE: AS NOTED
PROJECT No: 1817.0.00

M7.01

Date Stamped: 7/8/2024, Permit #: BLD23-7808, Plans Examiner: Paul Marquez
REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-01-E - Must be submitted for all buildings	

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	SOFCCM07; SOFCOM07;
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	SOFCCM07; SOFCOM07;
NRCA-MCH-05-A - Air Economizer Controls	SOFCCM07; SOFCOM07;
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to 120.1(c)(3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.	SOFCCM07;
NRCA-MCH-11-A Automatic Demand Shed Controls	SOFCCM07; SOFCOM07;
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	SOFCCM07; SOFCOM07;
NRCA-MCH-18-A Energy Management Control Systems	SOFCCM07;
NRCA-MCH-19-A Occupancy Sensor Controls	SOFCCM07;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
 There are no NRCV forms required for this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems? Duct leakage testing per CMC Section 603.10.1 required for these systems?	No Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system.	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18		All ductwork is an extension of an existing duct system	
19		Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-8	Duct Insulation R-value	
22			
23			

M. COOLING TOWERS
 This section does not apply to this project.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Matthew Torre	Documentation Author Signature:
Company: 15,000 Inc.	Signature Date:
Address: 6085 State Farm Dr. #130 Rohnert Park CA 94928	CA/HERS Certification Identification (if applicable): M36958 Phone: 707.577.0363

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: MATTHEW TORRE, PE	Responsible Design:
Company: 15000 INC	Date Signed: 2023-10-23
Address: 6085 STATE FARM DR. #130 ROHNERT PARK CA 94928	License: M36958 Phone: 707.577.0363

L. DISTRIBUTION (DUCTWORK AND PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems? Duct leakage testing per CMC Section 603.10.1 required for these systems?	No Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system.	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18		All ductwork is an extension of an existing duct system	
19		Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-8	Duct Insulation R-value	
22			
23			

The answers to the questions below apply to the following duct systems: Front NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems? No

Q. MANDATORY MEASURES DOCUMENTATION LOCATION
 This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

	01	02
Compliance with Mandatory Measures documented through MCH	Yes	Plan sheet or construction document location
Mandatory Measures Note-Block		M-Sheets



County of Sonoma
 2300 County Center Drive, Suite A220
 Santa Rosa, CA 95403

Sonoma Veteran's
 Memorial Hall
 HVAC Tenant
 Improvement

126 1st Street West
 Sonoma, CA 95476

CLIENT
 PROJECT TITLE

APPROVALS

#	REVISION	DATE
1	PLAN CHECK RESPONSE	09/21/2024

DRAWING TITLE
**TITLE-24
 DOCUMENTATION**

ISSUE DATE	10/23/2023
ISSUE TYPE	OWNER REVIEW
DRAWN BY	RLY
CHECKED BY	MJT/JMT
SCALE	AS NOTED
PROJECT No.	1817.0.00

DRAWING

M7.02

Date Stamped: 7/9/2024, Permit: BLD23-7808, Plans Examiner: Paul Marquez, REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA

APPLICABLE CODES & STANDARDS REFERENCES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2023*
 2022 California Administrative Code (CAC), Part 1, Title 24 CCR*
 2022 California Building Code (CBC), Part 2, Title 24 CCR
 (2021 International Building Code, Vol. 1 & 2, and 2022 California amendments)
 2022 California Electrical Code (CEC), Part 3, Title 24 CCR
 (2020 National Electrical Code and 2021 California Amendments)
 2022 California Mechanical Code (CMC), Part 4, Title 24 CCR
 (2021 IAPMO Uniform Mechanical Code and 2022 California amendments)
 2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
 (2021 IAPMO Uniform Plumbing Code and 2022 California amendments)
 2022 California Energy Code (CEC), Part 6, Title 24 CCR
 2022 California Fire Code (CFC), Part 9, Title 24 CCR
 (2021 International Fire Code and 2022 California Amendments)
 2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
 (2021 International Existing Building Code and 2022 California Amendments)
 2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
 2022 California Referenced Standards Code, Part 12, Title 24 CCR
 Title 19 CCR, Public Safety, State Fire Marshal Regulations
 2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2022 CBC Part 2 Ch 35)
 Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

PARTIAL LIST OF APPLICABLE STANDARDS
 NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended).....2022 Edition
 NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended).....2019 Edition
 NFPA 17 - Standard for Dry Chemical Extinguishing Systems.....2017 Edition
 NFPA 17A - Standard for Wet Chemical Extinguishing Systems.....2017 Edition
 NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection.....2016 Edition
 NFPA 22 - Standard for Water Tanks for Private Fire Protection.....2013 Edition
 NFPA 24 - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended).....2019 Edition
 NFPA 72 - National Fire Alarm and Signaling Code (CA amended).....2022 Edition
 NFPA 80 - Standard for Fire Doors and Other Opening Protectives.....2016 Edition
 NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended).....2018 Edition
 UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment.....2005 (R2010)
 UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories.....2003 Edition
 UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems.....1999 Edition
 UL 1971 - Standard for Signaling Devices for the Hearing Impaired.....2002 (R2010)
 ICC 300 - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands.....2017 Edition

For a complete list of applicable NFPA standards refer to 2022 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

*All parts of the 2022 California Building Code become effective January 1, 2023 except the effective date for the use of the 2022 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2023 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is March 5, 2022.

ELECTRICAL DEVICES

- JUNCTION BOX - WALL MOUNTED +18" A.F.F. U.O.N.
- JUNCTION BOX - FLOOR MOUNTED
- JUNCTION BOX - CEILING MOUNTED
- POWER OUTLET, DUPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, DEDICATED DUPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, SWITCHED DUPLEX - +18" A.F.F. U.O.N.
- POWER OUTLET, FOURPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, DEDICATED FOURPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, SIMPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, DUPLEX - FLOOR MOUNTED, FLUSH LID U.O.N.
- POWER OUTLET, DEDICATED DUPLEX - FLOOR MOUNTED, FLUSH LID U.O.N.
- POWER OUTLET, FOURPLEX - FLOOR MOUNTED, FLUSH LID U.O.N.
- POWER OUTLET, DEDICATED FOURPLEX - FLOOR MOUNTED, FLUSH LID U.O.N.
- POWER OUTLET, DUPLEX - CEILING MOUNTED
- POWER OUTLET, DEDICATED DUPLEX - CEILING MOUNTED
- POWER OUTLET, FOURPLEX - CEILING MOUNTED
- POWER OUTLET, DEDICATED FOURPLEX - CEILING MOUNTED

CIRCUITING

- CIRCUIT - CONCEALED
- CIRCUIT - EXPOSED
- CIRCUIT - UNDER FLOOR, GROUND OR SLAB
- CIRCUIT - HOME RUN
- CIRCUIT - STUB OUT
- CIRCUIT - STUB DOWN
- CIRCUIT - STUB UP
- CIRCUIT - COMPLETE CONNECTION

EQUIPMENT

- DISCONNECT, NON-FUSED
- DISCONNECT, WITH FUSE
- STARTER, NON-FUSED
- STARTER, WITH FUSE
- DIVISION 15 FAN
- STARTER, WITH CIRCUIT BREAKER
- PANELBOARD FLUSH
- PANELBOARD SURFACE
- ENCLOSURE FLUSH
- ENCLOSURE SURFACE
- DISTRIBUTION BOARD
- METER SECTION
- MOTOR
- MTTB
- SITE PULL BOX / VAULT
- TRANSFORMER

ADA REQUIREMENTS

- A. ALL HEIGHTS CALLED OUT ON PLANS ARE TO CENTERLINE OF DEVICE, U.O.N.
- B. FOLLOW ALL ADA REQUIREMENTS FOR DEVICE MOUNTING:
 - MAX UNOBSTRUCTED FORWARD REACH 48-INCHES TO TOP OF DEVICE.
 - MIN UNOBSTRUCTED FORWARD REACH 15-INCHES TO BOTTOM OF DEVICE.
 - MAX OBSTRUCTED FORWARD REACH 44-INCHES TO TOP OF DEVICE.
 - MAX OBSTRUCTED SIDE REACH 46-INCHES TO TOP OF DEVICE.

DIAGRAMS

- ATS
- PANEL
- CIRCUIT BREAKER
- FUSE
- UTILITY FUSE
- GROUND ROD
- METER
- METER CT
- TRANSFORMER

MISCELLANEOUS

- DEMO KEYED NOTE TAG
- ELECTRICAL EQUIPMENT TAG
- KEYED NOTE TAG
- MECHANICAL EQUIPMENT TAG
- REVISION DELTA
- EQUIPMENT MANUFACTURER'S IDENTIFICATION NUMBER
- DETAIL REFERENCE
- DETAIL REFERENCE
- PLAN NORTH ARROW

ELECTRICAL SHEET INDEX

- E-001 ELECTRICAL LEGEND AND ABBREVIATIONS
- E-002 ELECTRICAL SHEET SPECIFICATIONS
- E-101 ELECTRICAL ROOF DEMOLITION PLAN
- E-113 ELECTRICAL ROOF PLAN
- E-601 DIAGRAMS - SITE ELECTRICAL

ABBREVIATIONS

A	AMPERES	IMC	INTERMEDIATE METAL CONDUIT
AC	ALTERNATING CURRENT	JB	JUNCTION BOX
AF	AMP FRAME	KV	KILO VOLT
AFD	ADJUSTABLE FREQUENCY DRIVE	KVA	KILO VOLT-AMP
A.F.F.	ABOVE FINISHED FLOOR	KW	KILO WATT
AFG	ABOVE FINISHED GRADE	KWH	KILO WATT-HOUR
AHJ	AUTHORITY HAVING JURISDICTION	LPS	LOW PRESSURE SODIUM
AHU	AIR HANDLING UNIT	LTG	LIGHTING
AIC	AMPS INTERRUPTING CAPACITY	LV	LOW VOLTAGE
AL	ALUMINUM	MAX	MAXIMUM
ANN	ANNUNCIATOR	MC	METAL-CLAD
APPROX	APPROXIMATE	MCC	MOTOR CONTROL CENTER
ARF	ABOVE RAISED FLOOR	MCP	MOTOR CIRCUIT PROTECTOR
ATS	AUTOMATIC TRANSFER SWITCH	MFR, MFG	MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MH	METAL HALIDE
BAT	BATTERY	MIN	MINIMUM
BFG	BELOW FINISH GRADE	MLO	MAIN LUGS ONLY
CATV	CABLE TELEVISION	MDP	MAIN DISTRIBUTION BOARD
CL	CENTERLINE	MSB	MAIN SWITCHBOARD
C, CND	CONDUIT	MTD	MOUNTED
CB	CIRCUIT BREAKER	MTS	MANUAL TRANSFER SWITCH
CCTV	CLOSED CIRCUIT TELEVISION	MV	MEDIUM VOLTAGE
CKT	CIRCUIT	(N)	NEW
CO	CONDUIT ONLY	N, NEUT	NEUTRAL
COMM	COMMUNICATIONS	N/A	NOT APPLICABLE
CONST	CONSTRUCTION	NC	NORMALLY CLOSED
CONT	CONTINUED	NIC	NOT IN CONTRACT
CP	CONTROL PANEL	NL	NIGHT LIGHT
CPT	CONTROL POWER TRANSFORMER	NO	NORMALLY OPEN
CT	CURRENT TRANSFORMER	NTS	NOT TO SCALE
CU	COPPER	OC	ON CENTER
DC	DIRECT CURRENT	PANL	PANEL
DWG	DRAWING	PT	POTENTIAL TRANSFORMER
(E)	EXISTING	PVC	POLYVINYL CHLORIDE
EA	EACH	PB	PULL BOX, ELECTRICAL
EF	EXHAUST FAN	R	RADIUS
EGU	ENGINE GENERATOR UNIT	RECEPT	RECEPTACLE, OUTLET
EM	EMERGENCY LIGHT W/BATTERY BACKUP	REQD	REQUIRED
EMT	ELECTRICAL METALLIC CONDUIT	RGS, RSG	RIGID GALVANIZED STEEL CONDUIT
ENT	ELECTRICAL NON-METALLIC CONDUIT	RTU	REMOTE TERMINAL UNIT
EP	EXPLOSION PROOF	SD	STORM DRAIN
EQ	EQUAL	SP	SPACE, SPARE
EQUIV	EQUIVALENT	SS	STAINLESS STEEL
EW	ELECTRIC WATER COOLER	STD	STANDARDS, APPLICABLE
(F)	FUTURE	SW	SWITCH
FA	FIRE ALARM	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FAN COIL	T	THERMOSTAT
FDR	FEEDER	TP	TAMPER PROOF
FLUOR	FLUORESCENT	TV	TELEVISION
FU	FUSE	TVSS	TRANSIENT VOLT. SURGE SUPPRESSOR
G, GND	GROUND	TYP	TYPICAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UF	UNDER FLOOR
GFI	GROUND FAULT INTERRUPTER	UG	UNDER GROUND
GFR	GROUND FAULT RELAY	U.O.N.	UNLESS OTHERWISE NOTED
HID	HIGH INTENSITY DISCHARGE	UPS	UNINTERRUPTABLE POWER SUPPLY
HO	CONTROL SWITCH, "HAND - OFF"	V	VOLT
HOA	CONTROL SWITCH, "HAND - OFF- AUTO"	VA	VOLT-AMP
HOR	CONTROL SWITCH, "HAND - OFF- REMOTE"	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSE POWER	W/	WITH
HPS	HIGH PRESSURE SODIUM	W/O	WITHOUT
HV	HIGH VOLTAGE	WH	WATER HEATER
HVAC	HEATING, VENTILATION & AIR-COND.	WHM	WATT-HOUR METER
IC	INTERRUPTING CAPACITY	WP	WEATHER PROOF
IG	ISOLATED GROUND	XFMR	TRANSFORMER

heating, ventilation, air conditioning + plumbing design and engineering
 6085 STATE FARM DR #130 phone: 707.577.0363
 ROHNERT PARK, CA 94928 fax: 707.577.0364

BrokawDesign
 P.O. BOX 3103
 ROHNERT PARK, CA 94927
 www.brokawdesign.com

COUNTY OF SONOMA
 23000 COUNTY CENTER DR., SUITE A220
 SANTA ROSA, CA 95403

SONOMA VERTERAN'S MEMORIAL HALL HVAC TI

126 1ST STREET WEST
 SONOMA, CA 95476

APPROVALS

#	REVISION	DATE
1	PERMIT BACKCHECK	05/21/2024

DRAWING TITLE

ELECTRICAL LEGEND AND ABBREVIATIONS

ISSUE DATE	12/14/2023
ISSUE TYPE	PERMIT
DRAWN BY	TFL
CHECKED BY	
SCALE	AS NOTED
15000 INC. PROJECT No.	
CONSULTANT PROJECT No.	

E001

Date stamped: 7/9/2024 Permit #: BLD23-7808 Permit Examiner: Paul Wiatquez
 REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA

ELECTRICAL SPECIFICATIONS 26 00 00

ELECTRICAL

- 1.01- RELATED DOCUMENTS
A. The General Conditions, Supplementary Conditions and Division 1 apply to the electrical work.
1.02 - WORK INCLUDES
A. Work included in this section: All materials, labor, equipment, services, and incidentals necessary to install the Electrical Work as shown on the drawings and as specified herein...

- A. The contract drawings indicate the extent and general arrangements of the conduit wiring systems, etc. If any departures from the contract drawings are deemed necessary by the Contractor, details of such departures and the reasons therefore shall be submitted as soon as practicable, and within 10 days after award of the electrical contract.
B. UNLESS MATERIAL LIST AND DATA IS RECEIVED AS A COMPLETE AND ALL INCLUSIVE SUBMITTAL WITHIN THE STIPULATED TIME ALL ITEMS SHALL BE PROVIDED AS SPECIFIED-WITH NO DEVIATIONS PERMITTED.
C. Any and all additional costs incurred by the substitution of electrical material or equipment, or installation thereof, whether architectural, structural, plumbing, mechanical or electrical, shall be borne by the Contractor under this section.

- E. Telecommunication Wiring/ Receptacles:
1. Category 6 UTP Cable: Unshielded, 4 twisted-pair, 24 AWG copper, Category 6
2. Indoor Fiber Optic backbone cable: 12 strand, 62.5/125 m, multi-mode, riser type, NEC rated OFNR/FT4, color coded, rjpcod, 900 m buffer coating...
F. Receptacles: Leviton Decora style or equal, 125 volts, specification grade, conventional style, white color unless otherwise noted...

- Lamps:
a. Unless otherwise noted, lamps described on the Drawings and in these Specifications, are ANSI nomenclature; lamps shall be manufactured by Osram/Sylvania, North American Philips, or approved equal.
b. All incandescent lamps and tungsten halogen lamps shall be 125 -130 volt rated extended life or 2,000 hour life whenever such designs are available.
c. T8 fluorescent lamps shall be 3500K-4100K color temperature, energy saving type suitable...

- mains disconnected from feeders, branch circuits connected and circuit breakers closed, all fixtures in place and permanently connected and grounding jumper to neutral lifted and with all wall switches closed.
2. Test each individual circuit at each panelboard with equipment connected for proper operation.
3. Check verification of color coding, tagging, numbering, and splice make up.

- 1.03 - INCORPORATED DOCUMENTS
A. Requirements of the general conditions, supplementary conditions, and division 1, sections apply to all work in this section, unless modified herein.
B. Published specifications, standard tests or recommended methods of trade, industry or government organizations apply to work in this section where cited by abbreviations noted below, unless modified herein.

- PART 2 - PRODUCTS:
2.01- GENERAL
A. Materials shall be new, packed in original containers, installed and turned over to the Owner free of defects.
B. Materials shall bear Underwriters' Laboratory label.
C. Furnish equipment and materials for any one system by same manufacturer.

- 2.02- MATERIALS
A. Conduit
1. Conduit shall be delivered to the site of construction in the original bundles. Each length shall bear the label of the National Board of Fire Underwriters. All conduit subjected to rough usage while on the job, before installation, shall be removed from the premises upon notice.
2. Raceway and boxes located as indicated on drawings and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system.

- 3. Ballasts:
a. Fluorescent Lamp Ballasts: Solid State full light output Class P, ETL certified to CBM standards, high power factor one, two, three, or four lamp types; minimum starting temperature 50 degrees F, unless otherwise noted. Ballasts containing "PCB" are not permitted. The allowable total harmonic distortion shall be equal to or less than 10%. Maximum crest factor 1.4. Power factor .97 or greater. Advance, Magnetek, Lutron or Motorola.
b. Sound Ratings: "A", or the lowest rating available, for the number and types of lamps ballast. Replace noisy ballasts at no cost to the Owner.

- 4. Plastic:
a. Translucent Plastic Components: Translucent plastic shall be made of smooth, white, 100 percent virgin acrylic material.
b. Plastic Lenses: Lenses shall be uncolored 100 percent virgin acrylic plastic.

- 1.04 - CONDITIONS AT SITE:
A. Visit to site is required of all bidders prior to submission of bid. All will be held to have familiarized themselves with all discernible conditions and no extra payment will be allowed for work required because of these conditions, whether specifically mentioned or not.

- 3. Rigid Steel: Hot dipped galvanized, used exposed and in concrete slab, with completely watertight fittings.
4. "Schedule 40" PVC shall be provided with code size minimum bare No. 12 ground wire with "Schedule 80" elbows and stub-ups.
5. All rigid steel conduit, couplings and elbows in soil or under membrane to be 1/2 tape wrapped with Scotch #50 tape and threaded ends coated with red lead prior to installation of couplings.

- 6. Use flexible conduit for all motor connections; Flexible metal type provide with code size (minimum No. 12) bare ground wire in all flexible conduit.
7. Conduit Bends - Long Radius.
8. Provide conduit seals at all concrete slab penetrations.
9. Contractor shall xray all existing concrete slab before core drilling.
10. All indoor conduit shall be installed concealed in walls or above ceiling unless noted otherwise.

- 4. Finish Metal Parts:
a. Steel Reflectors: Unless otherwise specified, the reflector surface finish shall be of synthetic white enamel or polyester powder coating.
b. Aluminum Reflectors: Reflecting surfaces shall be provided with either a specular or diffuse finish as indicated.
c. Non-Reflecting Surfaces: Unless otherwise specified, the finish on all non-reflecting exterior surfaces shall be aluminum oxide or aluminum; white, gray or aluminum paint on steel; nickel or chromium plating on copper alloy. Fastening devices shall be nickel, chromium, cadmium or zinc plated.

- 5. Motor Disconnect Switches and Safety Switches: Heavy Duty Type, cover interlocked with operating handle so that cover cannot be opened with switch in closed position and switch cannot be closed with cover in open position, 240 or 480 volt rating, as required or as noted on drawings, in Nema 1 enclosure indoors, 3R enclosure outdoors, or as otherwise noted. All motor circuit fuses shall be dual element type.

- 1.05 - QUALITY ASSURANCE
A. Conformance:
1. All work shall conform to the applicable requirements of Article 1.03 above.
2. The Contractor shall notify the Architect, prior to submission of bid, about any part of the design which fails to comply with abovementioned requirements.

- 3. Rigid Steel: Hot dipped galvanized, used exposed and in concrete slab, with completely watertight fittings.
4. "Schedule 40" PVC shall be provided with code size minimum bare No. 12 ground wire with "Schedule 80" elbows and stub-ups.
5. All rigid steel conduit, couplings and elbows in soil or under membrane to be 1/2 tape wrapped with Scotch #50 tape and threaded ends coated with red lead prior to installation of couplings.

- 6. Use flexible conduit for all motor connections; Flexible metal type provide with code size (minimum No. 12) bare ground wire in all flexible conduit.
7. Conduit Bends - Long Radius.
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9. Contractor shall xray all existing concrete slab before core drilling.
10. All indoor conduit shall be installed concealed in walls or above ceiling unless noted otherwise.

- 5. Motor Disconnect Switches and Safety Switches: Heavy Duty Type, cover interlocked with operating handle so that cover cannot be opened with switch in closed position and switch cannot be closed with cover in open position, 240 or 480 volt rating, as required or as noted on drawings, in Nema 1 enclosure indoors, 3R enclosure outdoors, or as otherwise noted. All motor circuit fuses shall be dual element type.

- 5. Motor Disconnect Switches and Safety Switches: Heavy Duty Type, cover interlocked with operating handle so that cover cannot be opened with switch in closed position and switch cannot be closed with cover in open position, 240 or 480 volt rating, as required or as noted on drawings, in Nema 1 enclosure indoors, 3R enclosure outdoors, or as otherwise noted. All motor circuit fuses shall be dual element type.

- 1.06 - SUBMITTALS
A. Product Data:
1. Comply with the General Provisions of the Contract.
2. Within 15 days after award of the Contract, submit:
a. Complete material list of all items proposed to be furnished and installed under this Section, including but not limited to the following items: Circuit breakers, lighting fixtures, conduit, devices, enclosures, etc.
b. Manufacturers' specifications and other data required to demonstrate compliance with the specified requirements.

- 3. Shop Drawings: Furnish shop drawings and/or equipment cuts for the following:
a. Light Fixtures
b. Switchboards
c. Panelboards
d. Motor Starters, Control Equipment, and Control Relays
e. Disconnect Switches
f. Fire Alarm System
g. Lamps
h. Ballasts
i. Lighting Control System
j. Security and access Control
k. Switches, receptacles and faceplates.

- 4. Test Reports:
a. Factory Tests where indicated for specific equipment.
b. Field Tests: Performance tests as specified for specific equipment.
c. When series rated circuit breakers are used, provide a letter from the manufacturer of the equipment confirming that U.L. series rating exists for all protective devices. State the available fault current from the Utility Company and indicate that the overcurrent devices exceed the available fault current at the respective point of protection.

- 5. Motor Disconnect Switches and Safety Switches: Heavy Duty Type, cover interlocked with operating handle so that cover cannot be opened with switch in closed position and switch cannot be closed with cover in open position, 240 or 480 volt rating, as required or as noted on drawings, in Nema 1 enclosure indoors, 3R enclosure outdoors, or as otherwise noted. All motor circuit fuses shall be dual element type.

- 5. Motor Disconnect Switches and Safety Switches: Heavy Duty Type, cover interlocked with operating handle so that cover cannot be opened with switch in closed position and switch cannot be closed with cover in open position, 240 or 480 volt rating, as required or as noted on drawings, in Nema 1 enclosure indoors, 3R enclosure outdoors, or as otherwise noted. All motor circuit fuses shall be dual element type.

- 1.07- MATERIALS
A. Materials of the same type or classification, used for the same purpose, shall be the product of the same manufacturer.

- 1.08 - ACCEPTABLE MANUFACTURERS
A. Materials shall be of make mentioned elsewhere in this specification. All materials shall be the best of their several kinds, perfectly new and approved by the Underwriters' Laboratories.
B. Where material, equipment, apparatus or other products are specified by manufacturer, brand name, type or catalog number, such designation is to establish standards of desired quality, style and utility and shall be the basis of the bid. Materials so specified shall be furnished under the contract unless changed by written approval of the Owner's Representative. Where two or more designations are listed, choice shall be optional with this Contractor, but this Contractor must submit his choice for final approval.

- 1.09 - DELIVERY, STORAGE AND HANDLING
A. Protection: Use all means necessary to protect the materials of this Section before, during, and after installation and to protect the work and materials of all trades.
B. Delivery and Storage: Deliver all materials to the job site in their original containers with all labels intact and legible at time of use. Store in strict accordance with approved manufacturers' recommendations.

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A. Protection: Use all means necessary to protect the materials of this Section before, during, and after installation and to protect the work and materials of all trades.
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B. Delivery and Storage: Deliver all materials to the job site in their original containers with all labels intact and legible at time of use. Store in strict accordance with approved manufacturers' recommendations.

- 1.10 - SCHEDULING/SEQUENCING
A. Place orders for all equipment in time to prevent any delay in construction schedule or completion of project. If any materials or equipment are not ordered in time, additional charges made by equipment manufacturers to complete their equipment in time to meet the construction schedule, together with any special handling charges, shall be borne by this Contractor.

- 1.11 - REQUIREMENTS
A. The contract drawings indicate the extent and general arrangements of the conduit wiring systems, etc. If any departures from the contract drawings are deemed necessary by the Contractor, details of such departures and the reasons therefore shall be submitted as soon as practicable, and within 10 days after award of the electrical contract.

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Table with 2 columns: Voltage, Phasing, A Phase, B Phase, C Phase, Neutral. Rows include 120/240, 120/208, 208, 277/480, 480.

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WIRING NOTES

- 1. IF MORE THEN 3 CURRENT CARRYING CONDUCTORS ARE INSTALLED PER RACEWAY. CONTRACTOR SHALL DEMONSTRATE COMPLIANCE WITH NEC TABLE 310.15(B) (3) (a).
1.1. MAX (9) #12 AWG FOR 20A CIRCUITS.
1.2. MAX (6) #10 AWG FOR 30A CIRCUITS.
1.3. MAX (6) #8 AWG FOR 40A CIRCUITS.
2. FOR BRANCH CIRCUITS DO NOT EXCEED NEC CONDUIT FILL REQUIREMENTS, PROVIDE MAX:
2.1. MAX (9) #12 AWG THHN PER 3/4" EMT CONDUIT.
2.2. MAX (6) #10 AWG THHN PER 3/4" EMT CONDUIT.
2.3. MAX (4) #8 AWG THHN PER 3/4" EMT CONDUIT.
2.4. MAX (3) #6 AWG THHN PER 3/4" EMT CONDUIT.
2.5. MAX (2) #4 AWG THHN PER 3/4" EMT CONDUIT.
2.6. MAX (3) #4 AWG THHN PER 1" EMT CONDUIT.
2.7. MAX (2) #2 AWG THHN PER 1" EMT CONDUIT.
2.8. MAX (3) #2 AWG THHN PER 1 1/4" EMT CONDUIT.

SUMMARY OF VOLTAGE DROP LIMITS

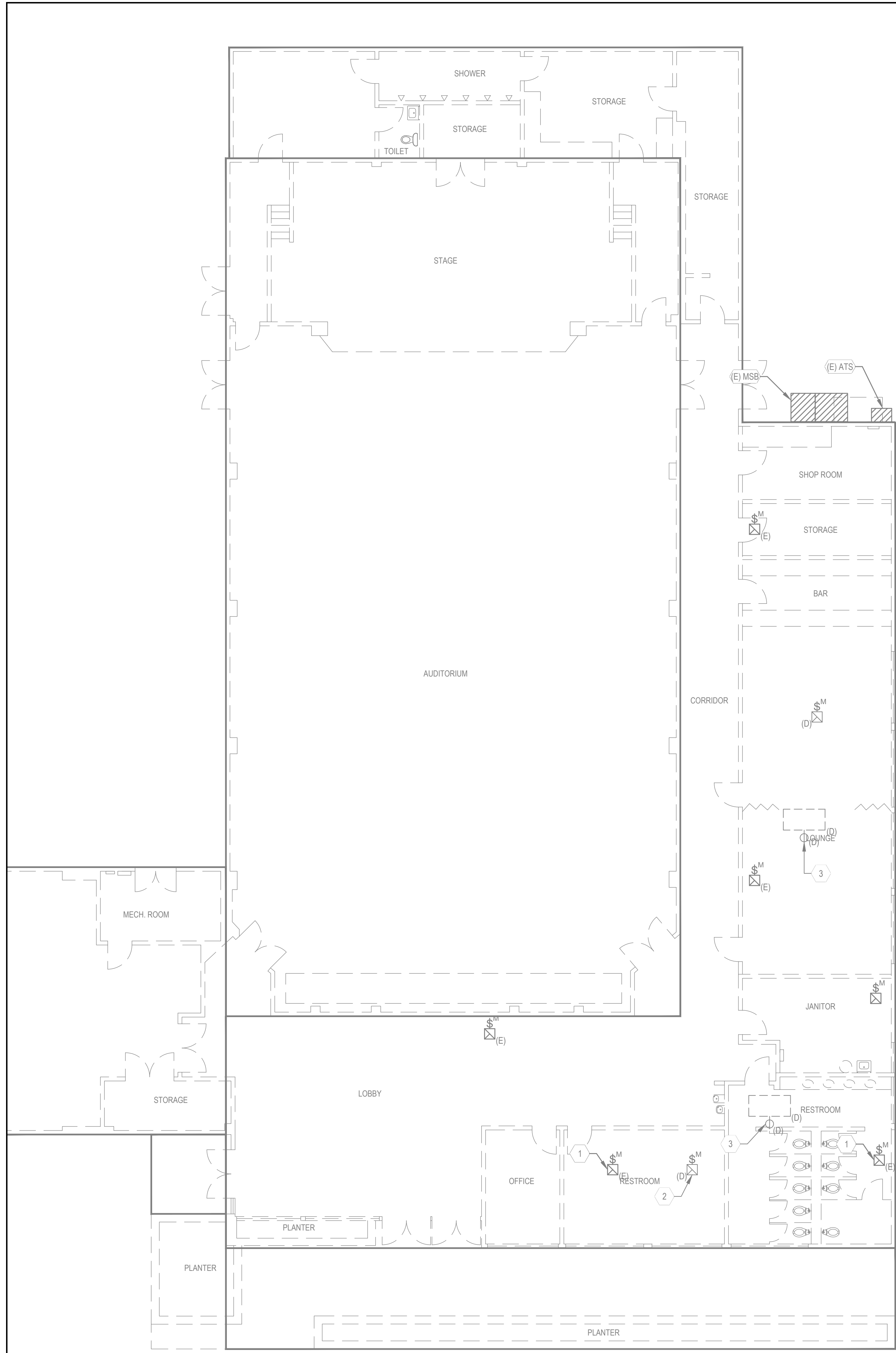
Table with 4 columns: CIRCUIT VOLTS (V), 2% VOLTAGE DROP (V), 3% VOLTAGE DROP (V), TOTAL LOSS (V). Rows include 120, 208, 240, 277, 480.

VOLTAGE DROP FOR COMMON COPPER WIRE GAUGES AND CURRENT LOADS

Table with 6 columns: WIRE, CIRCUIT, AMPS, MAXIMUM FEEDER LENGTH, MAXIMUM BRANCH CIRCUIT LENGTH. Rows include 14, 12, 10, 8, 6, 4, 2, 0, 00, 0000, 250, 300, 350, 500.

15000 INC. BrokawDesign COUNTY OF SONOMA SONOMA VERTERAN'S MEMORIAL HALL HVAC TI 126 1ST STREET WEST SONOMA, CA 95476 E002

DATE EXAMINER: 7/5/2024 EXAMINER: BLDZ37806 EXAMINER: Paul Wiatkiewicz REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA



1 DEMOLITION ELECTRICAL PLAN
 SCALE: 1/8" = 1'-0"
 0 8' 16' 32'

SHEET NOTES - DEMOLITION

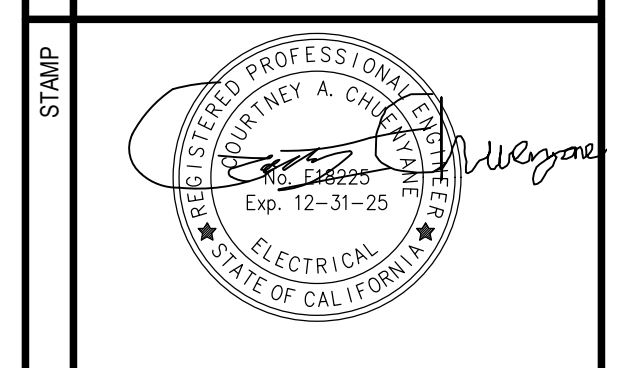
- A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING AVAILABLE RECORD DOCUMENTS.
- B. REMOVE CONDUIT, WIRE, BOXES, AND FASTENING DEVICES TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION.
- C. DISCONNECT, REMOVE AND/OR EXTEND ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
- D. RECONNECT EQUIPMENT BEING DISTURBED BY RENOVATION WORK AND REQUIRED FOR CONTINUE SERVICE TO NEAREST AVAILABLE PANEL.
- E. DISCONNECT OR SHUT OFF SERVICE TO AREAS WHERE ELECTRICAL WORK IS TO BE REMOVED. REMOVE ELECTRICAL FIXTURES, EQUIPMENT, AND RELATED SWITCHES, OUTLETS, CONDUIT AND WIRING WHICH ARE NOT PART OF FINAL PROJECT.
- F. INSTALL TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
- G. DO NOT PERFORM WORK ON ENERGIZED EQUIPMENT OR CIRCUITS.
- H. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
- I. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
- J. REMOVE EXPOSED ABANDONED GROUNDING AND BONDING COMPONENTS, FASTENERS AND SUPPORTS, AND ELECTRICAL IDENTIFICATION COMPONENTS, INCLUDING ABANDONED COMPONENTS ABOVE ACCESSIBLE CEILING FINISHES. CUT EMBEDDED SUPPORT ELEMENTS FLUSH WITH WALLS AND FLOORS.
- K. CLEAN AND REPAIR EXISTING EQUIPMENT TO REMAIN OR TO BE REINSTALLED.
- L. PROTECT AND RETAIN POWER TO EXISTING ACTIVE EQUIPMENT REMAINING.
- M. CAP ABANDONED EMPTY CONDUIT AT BOTH ENDS.
- N. SEAL ANY PENETRATIONS IN FIRE RATED WALLS.
- O. PATCH, REPAIR AND RE-FINISH (E) SURFACES DAMAGED DUE TO DEMOLITION.

KEYED NOTES - DEMOLITION

- 1. DISCONNECT AND REMOVE EXISTING EXHAUST FAN. RE-USE LOCATION FOR NEW EXHAUST FAN INSTALLATION. RECONNECT TO EXISTING CIRCUIT.
- 2. DISCONNECT AND REMOVE ALL EQUIPMENT AND FEEDERS ASSOCIATED WITH DEMOLISHED EQUIPMENT. SEE MECHANICAL PLANS FOR EXACT EQUIPMENT.
- 3. DISCONNECT EXISTING CONNECTION 120V, SINGLE PHASE CIRCUIT. RE-USE AND EXTEND TO NEW CONVENIENCE RECEPTACLE LOCATION.

15000 INC.
 heating, ventilation, air conditioning + plumbing design and engineering
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 www.brokawdesign.com



COUNTY OF SONOMA
 23000 COUNTY CENTER DR., SUITE A220
 SANTA ROSA, CA 95403

**SONOMA
 VETERAN'S
 MEMORIAL HALL
 HVAC TI**
 126 1ST STREET WEST
 SONOMA, CA 95476



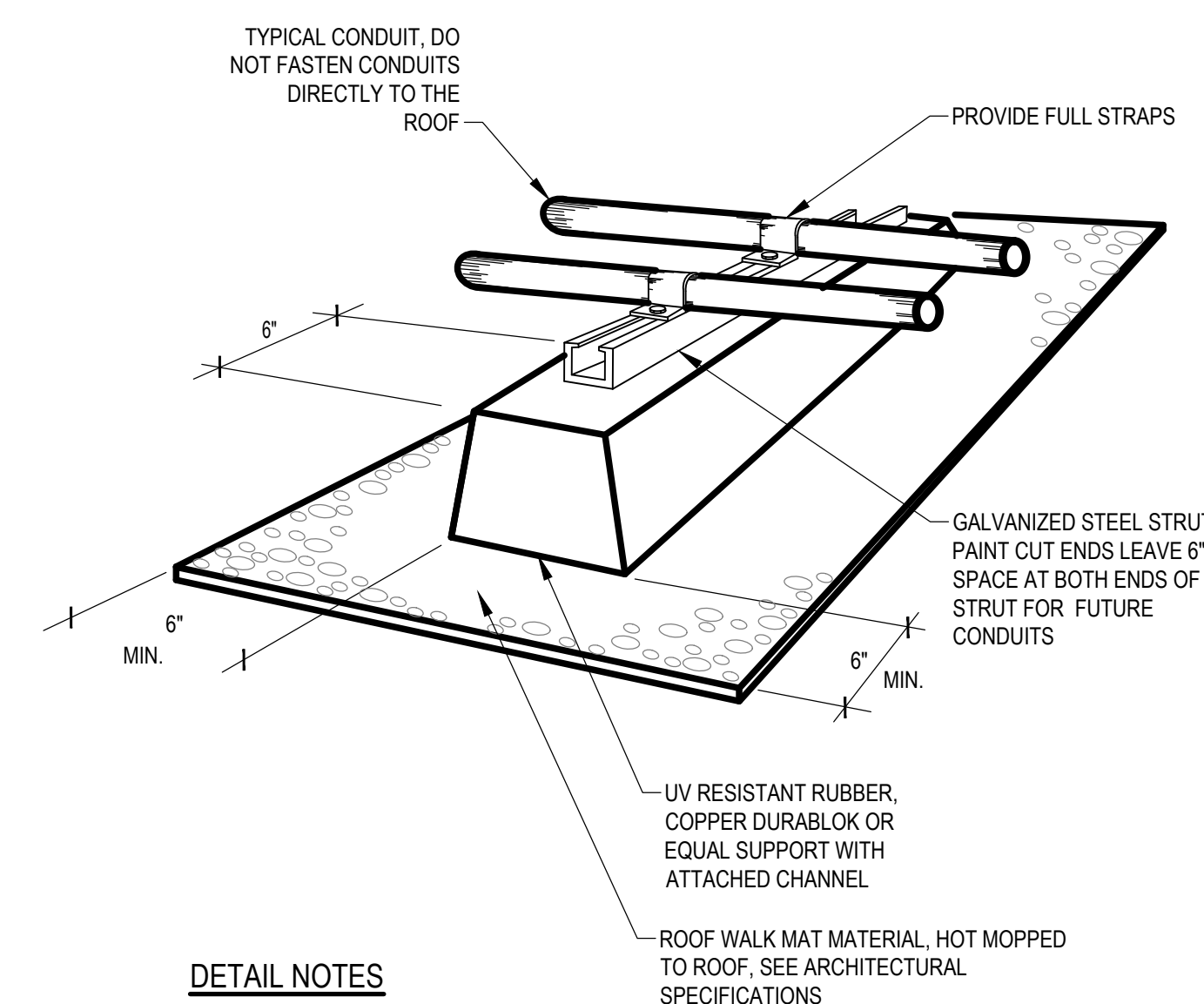
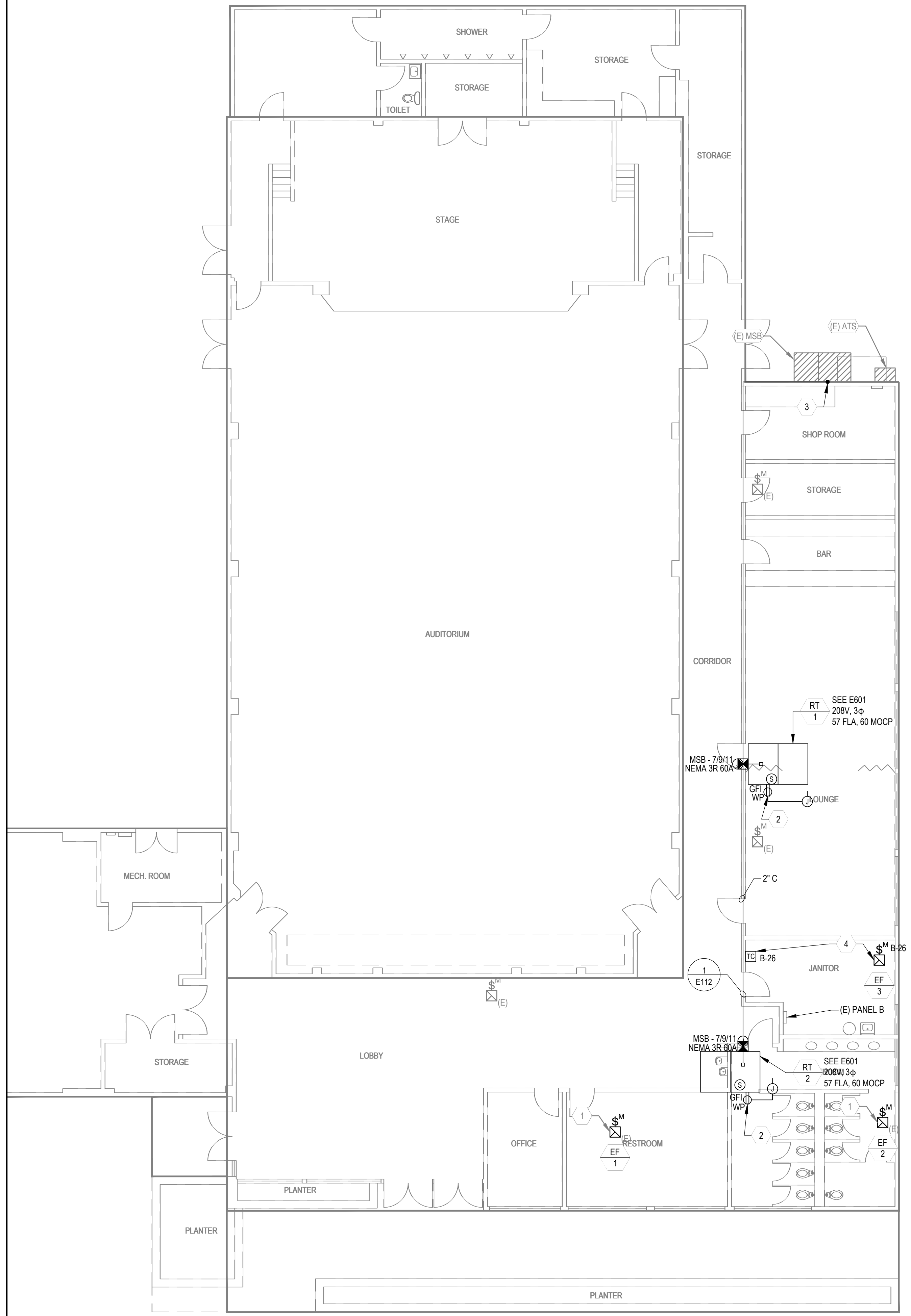
#	REVISION	DATE
1	PERMIT BACKCHECK	05/21/2024

**DEMOLITION
 PLAN**

ISSUE DATE	12/14/2023
ISSUE TYPE	PERMIT
DRAWN BY	TFL
CHECKED BY	
SCALE	AS NOTED
15000 INC. PROJECT No.	
CONSULTANT PROJECT No.	

E101

Date Stamp: 7/19/2024 Permit #: BLDZ3-7806 Permit Examiner: Paul Marquez
 REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA



DETAIL NOTES
 A. LOCATE SLEEPERS AS REQUIRED BY CODE REQ'D SUPPORTS BUT NOT MORE THAN 10' ON CENTER.

1 ROOF MOUNTED ELECTRICAL SLEEPER
 NOT TO SCALE

SHEET NOTES - ROOF ELECTRICAL

- A. ALL ROOF CONDUITS SHALL BE MOUNTED ON COOPER DURA-BLOK OR EQUAL AT MAX 10FT ON CENTER.
- B. ALL ROOF MOUNTED CONDUITS SHALL BE IMC OR RGS WITH WATERTIGHT FITTINGS.
- C. ALL ELECTRICAL ROOF PENETRATIONS SHALL BE PROVIDED COMPLETE, COORDINATED WITH ALL OTHER DISCIPLINES AND WATER TIGHT. REFER TO THE ARCHITECTURAL DRAWING AND SPECIFICATIONS FOR REQUIREMENTS.
- D. VERIFY EXACT LOCATIONS OF DIVISION 23 EQUIPMENT WITH THE DIVISION 23 CONTRACTOR PRIOR TO ROUGH-IN.
- E. LOCATIONS OF DIVISION 23 EQUIPMENT IS DIAGRAMMATIC. THE DIVISION 26 CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATIONS WITH ALL OTHER DISCIPLINES PRIOR TO COMMENCING ANY WORK.
- F. ALL EXTERIOR MOUNTED DEVICES SHALL BE PROVIDED WITH WP OR NEMA 3R RATING.
- G. PROVIDE HUB TYPE FITTINGS ON EXTERIOR CONDUITS.
- H. ALL EMPTY BOXES SHALL BE PROVIDED WITH BLANK WP STAINLESS STEEL COVER PLATES.
- I. ALL ELECTRICAL CONSTRUCTION SHALL BE COORDINATED AND MAINTAIN WALL AND CEILING RATING INDICATED ON THE ARCHITECTURAL DOCUMENTS.

KEYED NOTES - ROOF ELECTRICAL (x)

- 1. CONNECT NEW EXHAUST FAN TO EXISTING EXHAUST FAN CIRCUIT IN RESTROOM. PROVIDE A NEW SWITCH IF ONE IS NOT ALREADY PROVIDED TO THE EXHAUST FAN. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.
- 2. UNIT COMES WITH UNPOWERED WP DUPLEX RECEPTACLE AND DUCT SMOKE DETECTORS MOUNTED ON THE EQUIPMENT. CONNECT TO EXISTING ROOF CIRCUIT THROUGH SUITABLE JUNCTION BOX LOCATION. PROVIDE MIN 1-INCH CONDUIT AND (2) #12 AWG AND GND. CONTRACTOR TO CONNECT SMOKE DETECTORS TO EXISTING FIRE ALARM SYSTEM.
- 3. STUB UP CONDUIT ON SIDE OF BUILDING. PAINT TO MATCH WALL
- 4. CONNECT NEW EXHAUST FAN AND TIME CLOCK TO EXISTING SPARE BREAKER IN JANITORS ROOM. PROVIDE 1-INCH CONDUIT WITH MIN (2) #12 AWG AND GND.

1 ELECTRICAL ROOF PLAN



APPROVALS

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#	REVISION	DATE
1	PERMIT BACKCHECK	05/21/2024

DRAWING TITLE
 ELECTRICAL
 ROOF PLAN

ISSUE DATE	12/14/2023
ISSUE TYPE	PERMIT
DRAWN BY	TFL
CHECKED BY	
SCALE	AS NOTED
15000 INC. PROJECT No.	
CONSULTANT PROJECT No.	

DRAWING
 E112

Date Stamp: 7/19/2024 Permit: BLD23-7806 Permit Examiner: Paul Marquez
 REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA

EXISTING MAIN SWITCHBOARD

EXISTING PANEL SCHEDULE																
PANEL NAME: (E) MSB				VOLTAGE: 208		NEMA RATING: 3R		NOTES:								
MAINS RATING: 800 (A)				PHASE: 3		AIC RATING: 50K		LOCATION:								
BUS RATING: 800 (A)				WIRE: 4												
CKT NO	PHASE WIRE	NEUT WIRE	USE	DESCRIPTION	BKR SIZE	BKR OPTS	BKR KVA	PHASE	BKR KVA	BKR OPTS	BKR SIZE	DESCRIPTION	USE	NEUT WIRE	PHASE WIRE	CKT NO
1			H				24.02	A	38.43			(E) STAGE DIMMER	L			2
3			H	(E) HVAC ROOF	2503		24.02	B	38.43				L			4
5			H				24.02	C	38.43				L			6
7								A								8
9								B								10
11								C								12
13			R				14.41	A	21.62				R			14
15			R	(E) PANEL B1	1503		14.41	B	21.62			225/3 (E) PANEL E-1	R			16
17			R				14.41	C	21.62				R			18
19			R				9.61	A	9.61				H			20
21			R	(E) PANEL B	1003		9.61	B	9.61			100/2 (E) PANEL A	H			22
23			R				9.61	C	9.61				H			24

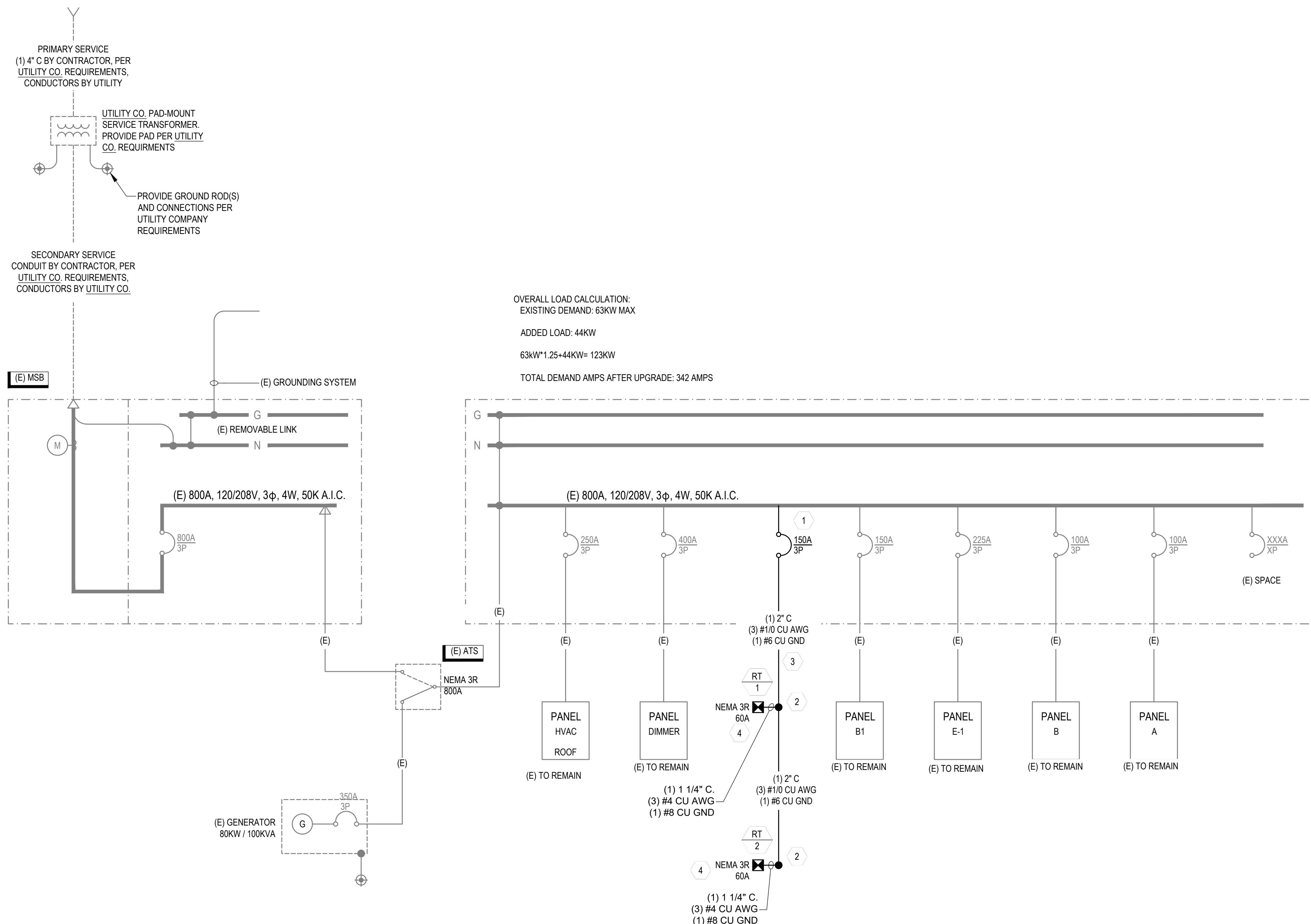
UPDATED PANEL SCHEDULE																
PANEL NAME: (E) MSB				VOLTAGE: 208		NEMA RATING: 3R		NOTES:								
MAINS RATING: 800 (A)				PHASE: 3		AIC RATING: 50K		LOCATION:								
BUS RATING: 800 (A)				WIRE: 4												
CKT NO	PHASE WIRE	NEUT WIRE	USE	DESCRIPTION	BKR SIZE	BKR OPTS	BKR KVA	PHASE	BKR KVA	BKR OPTS	BKR SIZE	DESCRIPTION	USE	NEUT WIRE	PHASE WIRE	CKT NO
1			H				24.02	A	38.43			(E) STAGE DIMMER	L			2
3			H	(E) HVAC ROOF	2503		24.02	B	38.43				L			4
5			H				24.02	C	38.43				L			6
7	#1/0		H				14.59	A								8
9	#1/0		H	RT-1, RT-2	1503		14.59	B								10
11	#1/0		H				14.59	C								12
13			R				14.41	A	21.62				R			14
15			R	(E) PANEL B1	1503		14.41	B	21.62			225/3 (E) PANEL E-1	R			16
17			R				14.41	C	21.62				R			18
19			R				9.61	A	9.61				H			20
21			R	(E) PANEL B	1003		9.61	B	9.61			100/2 (E) PANEL A	H			22
23			R				9.61	C	9.61				H			24

LOADS:		USE LEGEND		LOAD TYPE		BREAKER OPTIONS:	
PHASE A:	117.7 (KVA)	"H"	HVAC	GFCI - GROUND FAULT CIRCUIT INTERRUPTER	HACR - HEATING/AIR CONDITIONING RATED		
PHASE B:	117.7 (KVA)	"L"	LIGHTING				
PHASE C:	117.7 (KVA)	"M"	MOTOR	LO - LOCK-ON DEVICE	PA - PADLOCK ATTACHMENT		
TOTAL:	353.1 (CONNECTED KVA)	"O"	OTHER	ST - SHUNT TRIP	HT - HANDLE TIE		
	980.7 (CONNECTED A)	"R"	RECEPTACLE	FA - DEDICATED CIRCUIT FOR FIRE ALARM, RED HANDLE, MARKED "FIRE ALARM CIRCUIT", LOCK-ON DEVICE. PERMANENTLY IDENTIFY CIRCUIT AT FIRE ALARM EQUIPMENT.			
		"P"	PANEL				
		"C"	COOKING				
		"E"	EV LOADS				
		"W"	WATER HEATER				

UPDATED MAIN SWITCHBOARD

UPDATED PANEL SCHEDULE																
PANEL NAME: (E) MSB				VOLTAGE: 208		NEMA RATING: 3R		NOTES:								
MAINS RATING: 800 (A)				PHASE: 3		AIC RATING: 50K		LOCATION:								
BUS RATING: 800 (A)				WIRE: 4												
CKT NO	PHASE WIRE	NEUT WIRE	USE	DESCRIPTION	BKR SIZE	BKR OPTS	BKR KVA	PHASE	BKR KVA	BKR OPTS	BKR SIZE	DESCRIPTION	USE	NEUT WIRE	PHASE WIRE	CKT NO
1			H				24.02	A	38.43			(E) STAGE DIMMER	L			2
3			H	(E) HVAC ROOF	2503		24.02	B	38.43				L			4
5			H				24.02	C	38.43				L			6
7	#1/0		H				14.59	A								8
9	#1/0		H	RT-1, RT-2	1503		14.59	B								10
11	#1/0		H				14.59	C								12
13			R				14.41	A	21.62				R			14
15			R	(E) PANEL B1	1503		14.41	B	21.62			225/3 (E) PANEL E-1	R			16
17			R				14.41	C	21.62				R			18
19			R				9.61	A	9.61				H			20
21			R	(E) PANEL B	1003		9.61	B	9.61			100/2 (E) PANEL A	H			22
23			R				9.61	C	9.61				H			24

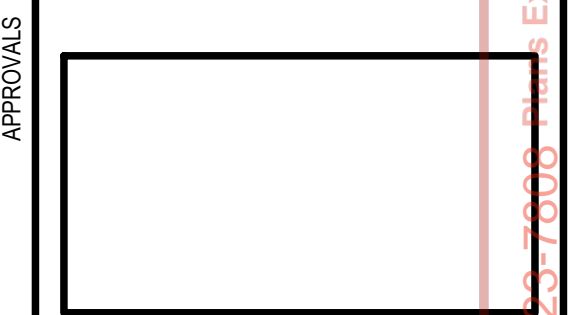
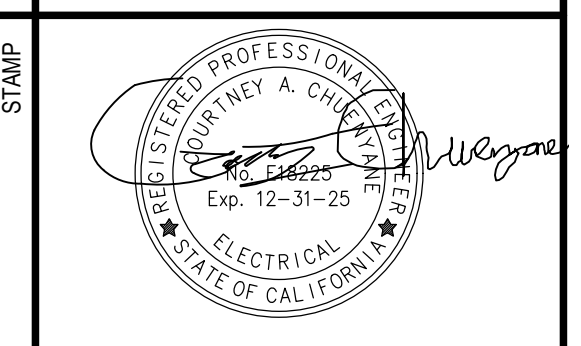
LOADS:		USE LEGEND		LOAD TYPE		BREAKER OPTIONS:	
PHASE A:	132.3 (KVA)	"H"	HVAC	GFCI - GROUND FAULT CIRCUIT INTERRUPTER	HACR - HEATING/AIR CONDITIONING RATED		
PHASE B:	132.3 (KVA)	"L"	LIGHTING				
PHASE C:	132.3 (KVA)	"M"	MOTOR	LO - LOCK-ON DEVICE	PA - PADLOCK ATTACHMENT		
TOTAL:	396.8 (CONNECTED KVA)	"O"	OTHER	ST - SHUNT TRIP	HT - HANDLE TIE		
	1102.3 (CONNECTED A)	"R"	RECEPTACLE	FA - DEDICATED CIRCUIT FOR FIRE ALARM, RED HANDLE, MARKED "FIRE ALARM CIRCUIT", LOCK-ON DEVICE. PERMANENTLY IDENTIFY CIRCUIT AT FIRE ALARM EQUIPMENT.			
		"P"	PANEL				
		"C"	COOKING				
		"E"	EV LOADS				
		"W"	WATER HEATER				



KEYED NOTES

- PROVIDE NEW BREAKER IN EXISTING FRAME SPACE. BREAKER SHALL MATCH MANUFACTURER OF SWITCHBOARD/ OTHER BREAKERS. BREAKER SHALL COORDINATE WITH EXISTING MAIN BREAKER.
- PROVIDE WEATHERPROOF J-BOX WITHIN 5FT OF EQUIPMENT. PROVIDE WEATHERPROOF TAP SPLICES IN BOX.
- ROUTE CONDUIT UP TO ROOF. MOUNT CONDUIT ON PAINT TO MATCH WALL. VERIFY WITH OWNER ANY PAINTING REQUIREMENTS.
- PROVIDE DEDICATED FUSED DISCONNECT AT AC UNIT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL EQUIPMENT NOTES. UNITS SHALL HAVE THE CONTROL FUNCTION TO POWER DOWN WHEN THE ATS SWITCHES TO EMERGENCY POWER. PROVIDE CONTROL CONNECTION FROM THE ATS TO THE MECHANICAL CONTROLS.

1 SINGLE LINE DIAGRAM - POWER
NOT TO SCALE



#	REVISION	DATE
1	PERMIT BACKCHECK	05/21/2024

DRAWING TITLE
DIAGRAMS
ELECTRICAL
SITE

ISSUE DATE	12/14/2023
ISSUE TYPE	PERMIT
DRAWN BY	TFL
CHECKED BY	
SCALE	AS NOTED
15000 INC. PROJECT No.	
CONSULTANT PROJECT No.	

DRAWING
E601

Date Stamped: 7/9/2024 Permit: P.D.23-78666-0000 E-Examiner: Paul Marquez
REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA

A. DESIGN BASIS

- A.1. EQUIPMENT SUPPORTS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2022 CBC THAT INCLUDES THE THE AMERICAN SOCIETY OF CIVIL ENGINEERS SEI/ASCE 7-16"MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
- A.2. EQUIPMENT SUPPORTS DESIGNED FOR SEISMIC LOADS BASED ON THE FOLLOWING PARAMETERS:
 BUILDING RISK CATEGORY =II-"STANDARD"
 SITE CLASS = D (ASSUMED)
 MAX. 0.2 SEC. SPECTRAL RESPONSE ACCELERATION, SS = 1.673
 MAX. 1.0 SEC. SPECTRAL RESPONSE ACCELERATION, S1 = 0.629
 IMPORTANCE FACTOR, I_e = 1.0
 SEISMIC DESIGN CATEGORY = D
 DESIGN SPECTRAL RESPONSE AT SHORT PERIODS; S_{DS} = 1.339
- A.3. EQUIPMENT ANCHORAGE DESIGNED OF THE FOLLOWING LOADS:

 RT-1 / RT-2
 COMPONENT IMPORTANCE FACTOR; I_p = 1.0
 A_p= 2.5
 R_p= 6
 H/Z= 1.0 S
 F_p= 0.67 W_p
 W_p= 900LB

 EQUIPMENT IS NOT REQUIRED BY CODE TO BE OPERATIONAL AFTER AN EARTHQUAKE. SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT IS NOT REQUIRED. HOWEVER,ALL EQUIPMENT SHALL BE SEISMIC CERTIFIED IF AVAILABLE.
- A.4. SPECIAL INSPECTIONS AND TESTING: SEE S003
- A.5. DESIGN LIVE LOADS:

 ROOF LIVE LOAD = 20 PSF

B. GENERAL NOTES

- B.1. ALL WORK TO CONFORM TO REQUIREMENTS OF ALL PUBLICATIONS AND NOTES LISTED UNDER "DESIGN BASIS".
- B.2. ARCHITECTURAL DRAWINGS, MECHANICAL/ELECTRICAL/PLUMBING DRAWINGS AND ALL OTHER DRAWINGS AS REQUIRED SHALL BE USED IN CONJUNCTION WITH STRUCTURAL DRAWINGS TO DEVELOP DETAILS AND DIMENSIONS FOR SHOP DRAWINGS, FABRICATION, ERECTION AND CONSTRUCTION. CONTRACTOR IS TO COORDINATE EQUIPMENT, SUPPORT CONDITIONS AND DIMENSIONS FOR SUPPORTING BEAMS, FRAMES AND OPENINGS FOR MECHANICAL EQUIPMENT AND PROVIDE THIS INFORMATION FOR REVIEW.
- B.3. DO NOT SCALE DRAWINGS.
- B.4. CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER/OWNER/ENGINEER IMMEDIATELY UPON DISCOVERY OF CONFLICTS IN THE DRAWINGS AND SPECIFICATIONS.
- B.5. THE CONTRACTING OFFICER/OWNER/ENGINEER MAY PERIODICALLY VISIT THE SITE TO OBSERVE THE PROGRESS AND GENERAL QUALITY OF THE CONSTRUCTION. THESE VISITS ARE NOT INTENDED TO REPLACE THE CONTRACTOR'S RESPONSIBILITY FOR QUALITY CONTROL OR SPECIAL INSPECTION.
- B.6. THE CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND ALL DIMENSIONS IN FIELD PRIOR TO START OF CONSTRUCTION AND PROTECT AND MAINTAIN ALL EXISTING CONSTRUCTION AND ITS CONTENTS IN FULL.
- B.7. THE STRUCTURE HAS BEEN DESIGNED TO BE STABLE AND SELF SUPPORTING AFTER THE CONSTRUCTION IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY FOR THE BUILDING'S STABILITY DURING CONSTRUCTION. THIS RESPONSIBILITY ALSO INCLUDES BUT IS NOT LIMITED TO METHOD AND SEQUENCE OF ERECTION, TEMPORARY SHORING AND TEMPORARY BRACING.
- B.8. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- B.9. SHOULD ANY INFORMATION ON THE STRUCTURAL DRAWINGS CONFLICT WITH THE SPECIFICATIONS OR ANY OTHER PART OF THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND AN INTERPRETATION WILL BE GIVEN.
- B.10. ALL SECTIONS, DETAILS, NOTES, DIMENSIONS AND CONDITIONS ARE APPLICABLE AT ANY OTHER LOCATION WHERE CONDITIONS AND DETAILS ARE SIMILAR BUT ARE NOT SPECIFICALLY NOTED AS SUCH OR ARE NOT SHOWN.

C. WOOD NOTES

- C.1. ALL WORK TO CONFORM TO THE REQUIREMENTS OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (ANSI/NFOPA NDS-CURRNET EDITION) AS RECOMMENDED BY THE AMERICAN FOREST & PAPER ASSOCIATION.
- C.2. THE STANDARD WOOD DETAILS AND THE NAILING, ETC., CALLED FOR IN THESE NOTES ARE MINIMUM REQUIREMENTS AND WILL APPLY TO ALL WORK EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SHOWN ELSEWHERE. ALL WOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 23 OF THE 2019 CBC.
- C.3. FRAMING LUMBER SHALL BE DOUGLAS FIR AS FOLLOWS: ANY MEMBER WHICH FALLS BELOW GRADE OR HAS DEFECTS WHICH AFFECTS SERVICEABILITY SHALL BE REJECTED. ALL STRUCTURAL FRAMING SHALL BE SURFACED DRY WITH 19% OR LESS MOISTURE.
 POSTS, HEADERS, AND STIFFENERS SHALL BE DF-L#1
 STUDS SHALL BE DF-L#2
 SILL SHALL BE AIWA UC2, NO. 2 PRESSURE TREATED DOUG FIR
- C.4. PLYWOOD SHALL BE 5-PLY STRUCTURAL 1
- C.5. LVL BEAMS SHALL BE GRADE 2.2E WITH A MINIMUM MODULUS OF ELASTICITY OF 2200 KSI, BENDING STRENGTH OF 2925 PSI, SHEAR STRENGTH OF 285 PSI. THEY SHALL BE THE SIZE SHOWN ON DRAWINGS AND HAVE NO CAMBER UNLESS NOTES ON DRAWINGS.
- C.6. FOR CONVENIENCE FRAMING CONNECTIONS BY THE SIMPSON COMPANY, ARE CALLED OUT ON THE DRAWINGS. EQUIVALENT CONNECTIONS OF OTHER MANUFACTURERS HAVING THE SAME CAPACITY AND HAVING ICBO APPROVAL MAY BE USED. PROVIDE FULL NAILING OR BOLTING OF CONNECTIONS AS PUNCHED USING MANUFACTURER'S NAILS OR SPECIFIED BOLTS.
- C.7. NAILS WILL BE COMMON WIRE TYPE UNO, GALVANIZED IN EXTERIOR LOCATIONS & AT PT SILL.
- C.8. MINIMUM FRAMING NAILING REQUIRED SHALL BE PER 2022 CBC

CONSULTANT
BrokawDesign
 P.O. BOX 3103
 ROHNERT PARK, CA 94927
 www.brokawdesign.com



CLIENT
COUNTY OF SONOMA
 23000 COUNTY CENTER DR., SUITE A220
 SANTA ROSA, CA 95403

PROJECT TITLE
**SONOMA
 VETERAN'S
 MEMORIAL HALL
 HVAC TI**

 126 1ST STREET WEST
 SONOMA, CA 95476



#	REVISION	DATE
1	PERMIT BACKCHECK	05/21/2024

DRAWING TITLE
**STRUCTURAL
 GENERAL
 NOTES**

ISSUE DATE	12/14/2023
ISSUE TYPE	PERMIT
DRAWN BY	TFL
CHECKED BY	
SCALE	AS NOTED
15000 INC. PROJECT No.	
CONSULTANT PROJECT No.	

DRAWING
S001

Date Stamp: 7/19/2024 Permit #: BLD23-7806 Permittee: Paul Marquez
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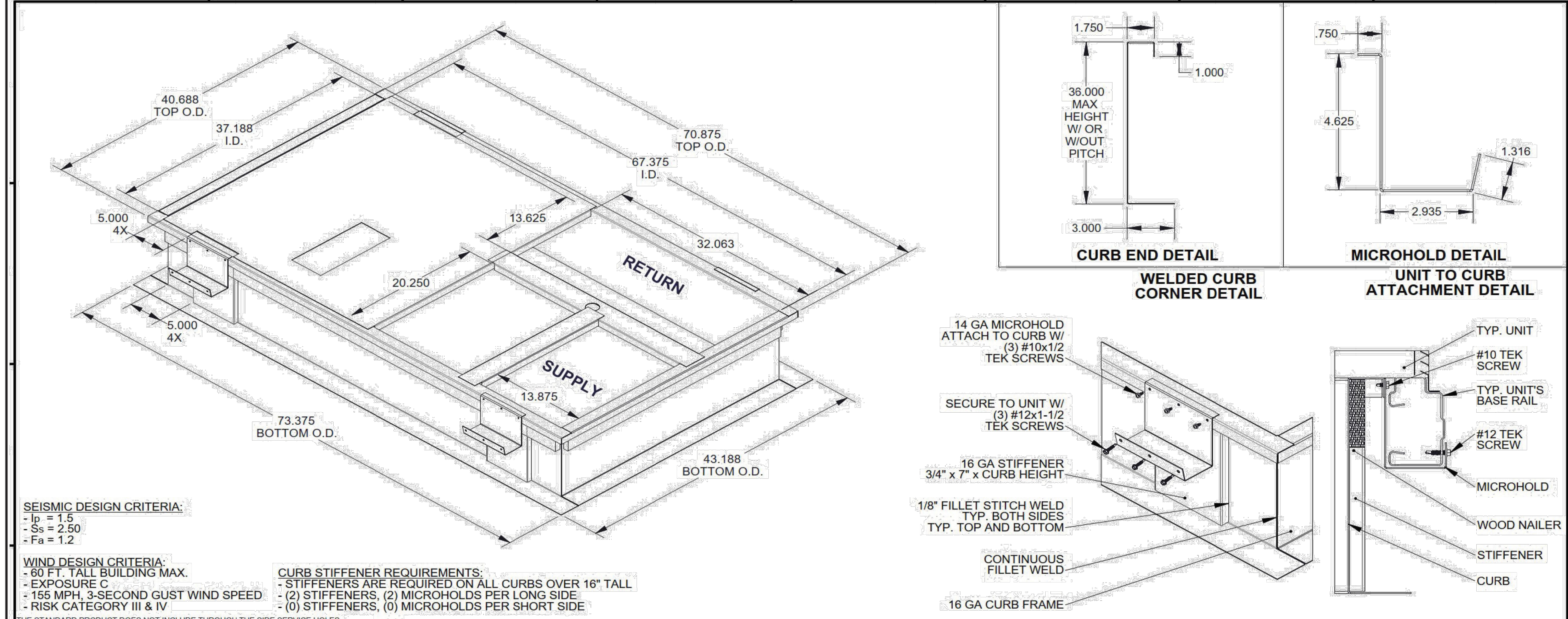


Date: Weight: 105lbs (US) 47.63kg (Metric) Part Number: CRBW-SRT12HA-1411

RTU:

Submitted to: Approved by: Notes:

Welded Structurally Calculated Curb - 14 Inches Tall Non Insulated Full Perimeter Welded Structurally Calculated Curb Curb, California State Standard, Standard Seismic Criteria, "Structurally" Stamped By A Professional Engineer, Without Pitch, Insulated Deck Pan If Applicable, Includes Wood Nailer & Hold Down Brackets. Meets Seismic Requirements for 2022 CBC & 2021 IBC. Wind Design Criteria: 60 Foot Tall Building Maimum, Exposure C, 155 MPH - 3 Second Gust Speed, Risk Category III & IV.



SEISMIC DESIGN CRITERIA:
 - I_p = 1.5
 - S_s = 2.50
 - F_a = 1.2

WIND DESIGN CRITERIA:
 - 60 FT. TALL BUILDING MAX.
 - EXPOSURE C
 - 155 MPH, 3-SECOND GUST WIND SPEED
 - RISK CATEGORY III & IV

CURB STIFFENER REQUIREMENTS:
 - STIFFENERS ARE REQUIRED ON ALL CURBS OVER 16" TALL
 - (2) STIFFENERS, (2) MICROHOLDS PER LONG SIDE
 - (0) STIFFENERS, (0) MICROHOLDS PER SHORT SIDE

MicroMetl Corporation

Indianapolis, IN.: (800) 662-4822
 Sparks, NV. (800) 884-4662
 Longview, TX. (903) 248-4800

MEETS SEISMIC REQUIREMENTS FOR 2022 CBC & 2021 IBC
 MEETS SEISMIC REQUIREMENTS FOR 155 MPH, 60' BUILDING HEIGHT MAX., 3 SEC. GUST, EXP C

ANCHORAGE DETAILS TO ROOF: ALL DETAILS ARE CALCULATED USING THE SEISMIC DESIGN CRITERIA INDICATED ABOVE. FOR ANY OTHER TYPE OF ANCHORAGE THE EOR HAS THE OPTION TO CALCULATE THE ANCHORAGE USING SITE SPECIFIC PARAMETERS AND LOADS.

CRBW-SRT12HA-08 Series 08" TALL 84 LBS.
CRBW-SRT12HA-11 Series 11" TALL 95 LBS.
CRBW-SRT12HA-14 Series 14" TALL 105 LBS.
CRBW-SRT12HA-24 Series 24" TALL 153 LBS.
CRBW-SRT12HA-36 Series 36" TALL 202 LBS.

STRUCTURALLY CALCULATED WELDED CURB
 MAX UNIT WEIGHT 1099 lbs.

CLIFFORD H. JONES
 No. 2602
 Exp. 12/31/25
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 8/24/22

BJG# 20220039

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Master Revision 0001A
 Page Revision 0001A

Indianapolis_3035 N. Shadeland Ave., Indianapolis, IN 46226_800.MMC.HVAC •• Sparks_905 Southern Way, Sparks, NV 89431_800.884.4MMC •• Longview_201 Kodak Blvd., Longview, TX 75602_903.248.4800

NOTE:
 BASIS OF DESIGN CURB SHOWN IS FOR A FLAT ROOF. EXISTING ROOF IS SLOPED.
 CONTRACTOR SHALL HAVE MANUFACTURER MODIFY CURB AS REQUIRED FOR EXISTING SLOPE. CONTRACTOR SHALL VERIFY EXISTING ROOF PRIOR TO ORDERING. ROOF CURB SHALL BE CERTIFIED BY A CALIFORNIA PROFESSIONAL ENGINEER FOR PROJECT SPECIFIC CONDITIONS.

1 BASIS OF DESIGN MANUFACTURER SUPPLIED CERTIFIED CURB
 SCALE: 1/8" = 1'-0"

NOTE:
 INFORMATION CONTAINED ON THIS SHEET IS BASED ON SPECIFIC EQUIPMENT. IF THE CONTRACTOR SUBMITS ALTERNATE EQUIPMENT, HE SHALL RETAIN (AT THE CONTRACTOR'S COST) THE SERVICES OF A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER TO RE-ENGINEER THE ANCHORING AND CURB DETAILS. THE CONTRACTOR SHALL ALSO SUBMIT THE RE-ENGINEERED DETAILS TO THE BUILDING DEPARTMENT AS A PERMIT REVISION FOR REVIEW AND APPROVAL. THE STRUCTURAL & CIVIL ENGINEER WILL REVIEW SUBMITTED ALTERNATE EQUIPMENT FOR GENERAL CONFORMANCE ONLY.

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 ROHNERT PARK, CA 94928 fax: 707.577.0364

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 www.brokawdesign.com



DATE SIGNED: 05/06/2024

CLIENT
 COUNTY OF SONOMA
 23000 COUNTY CENTER DR., SUITE A220
 SANTA ROSA, CA 95403

PROJECT TITLE
 SONOMA
 VETERAN'S
 MEMORIAL HALL
 HVAC TI

126 1ST STREET WEST
 SONOMA, CA 95476

APPROVALS

#	REVISION	DATE
1	PERMIT BACKCHECK	05/21/2024

DRAWING TITLE
 CERTIFIED CURB INFORMATION

ISSUE DATE	12/14/2023
ISSUE TYPE	PERMIT
DRAWN BY	TFL
CHECKED BY	
SCALE	AS NOTED
15000 INC. PROJECT No.	
CONSULTANT PROJECT No.	

DRAWING
S002

Date Stamp: 7/19/2024 Permit No: BLD23-7806 Permit Ex: Paul Marquez REVIEWED FOR CODE COMPLIANCE - PERMIT SONOMA



County of Sonoma
Permit & Resource Management Department

STATEMENT OF SPECIAL INSPECTIONS CNI-033

Name of Owner: County of Sonoma
Address: 126 1ST STREET WEST, SONOMA CA 95476
Permit Number: BLD23-2716
Job Description: SONOMA VETERAN'S MEMORIAL HALL HVAC TI

This Statement of Special Inspections is submitted to outline the requirements of 2019 CBC Chapter 17. Included are:

- A. Schedule of special inspections and tests applicable to this project:
1. Special inspections, per Section 1704 & 1705;
2. Special inspection for seismic resistance, per Sections 1704.3.2, 1705.12, 1705.13;
3. Structural observations, per Section 1704.6;
4. Material testing and/or load testing, per Sections 1706 through 1709.
B. List of the special inspector, testing agencies, and registered design professionals that will be retained to conduct the applicable tests, observations, and testing required;
C. Contractor's statement of responsibility, per Section 1704.4.

Prepared By: Registered Design Professional in Responsible Charge
Tim Lengyel License Number: S5196

Signature: Tim Lengyel Date: 12/14/2023

Owner's Authorization: Mark Abel Building Official Approval

Signature: Mark Abel Date: 2024.05.06 11:49:57 -07'00'

Special inspections and testing, and structural observations, shall be performed in accordance with the approved plans and specifications, this statement, approved testing procedures, applicable listing information for fabricated items, and CBC Section 17.

STATEMENT OF SPECIAL INSPECTIONS CNI-033

The Schedule of Special Inspections summarizes the special inspections and tests required. Special inspectors shall refer to the approved plans and specifications for detailed special inspection requirements. Any additional tests or observations required by the approved plans, specifications, or required by the building official shall also be performed.

Interim reports will be submitted to the building official and the registered design professional in responsible charge, in accordance with CBC Section 1704.2.4.

At the conclusion of work included in the permit, a report of special inspections and structural observations shall be submitted to the building inspector. The final report shall document:

- A. Required special inspections;
B. Final results of structural testing;
C. Correction of discrepancies noted in inspections;
D. Written statement of structural observations, and identification of any reported deficiencies which, to the best of the structural observer's knowledge, have not been resolved.
This plan has been developed with the understanding that the building official shall:
A. Review and approve the qualifications of special inspectors who shall perform inspections;
B. Review submitted inspection reports;
C. Perform inspections as required by the locally adopted building codes.

Schedule of Inspections, Testing Agencies, and Inspectors

The following are the testing agencies, registered design professionals, and special inspectors that will be retained to conduct tests, inspections, and structural observations for this project:

Table with 4 columns: Responsibility, Firm, Address, telephone, e-mail. Rows include Special Inspection (except for geotechnical), Material Testing, Geotechnical Inspections, and Structural Observations.

Special inspections can be performed by agencies approved by Permit Sonoma listed on CNI-014 Special Inspection Agency Recognition List. Special inspections may also be performed by the engineer of record where the engineer has submitted the appropriate certification during the plan check process (e.g. Structural Welding Special Inspector, Reinforced Concrete Special Inspector, etc.).

STATEMENT OF SPECIAL INSPECTIONS CNI-033

Seismic Requirements (Section 1704.3.2)

Identify the designated seismic systems and seismic-force-resisting systems subject to special inspections per CBC Section 1705.12. Identify any required testing and qualification for seismic resistance per CBC Section 1705.13.

The project consists of a replacement of two roof top units. The units require structural strengthening of the framing.

Summary of required special inspections, structural testing, and structural observations

Briefly describe required special inspections and structural observations for this project. Full schedule of inspections are those that are checked off on the following pages. Include additional sheets as necessary to identify frequency and extent of structural observations.

Special Inspections: Not Required

Structural Observations

STRUCTURAL OBSERVATION OF ROOF FRAMING IS REQUIRED. STRUCTURAL OBSERVATION SHALL CONSIST OF A MINIMUM OF THREE VISITS:
1. FIRST VISIT SHALL BE WHEN ROOF IS OPENED BUT BEFORE FRAMING IS INSTALLED TO VERIFY EXISTING CONDITIONS.
2. A SECOND VISIT SHALL OCCUR ONCE FRAMING IS IN PLACE, BUT BEFORE THE SHEATHING IS REINSTALLED.
3. A THIRD VISIT IS REQUIRED WHEN THE SHEATHING IS REINSTALLED BUT BEFORE ROOFING IS REPLACED.

STATEMENT OF SPECIAL INSPECTIONS CNI-033

Schedule of Special Inspections

Column headers:
C = Full-time observation of work by an approved special inspector while the work is being performed.
P = Intermittent observation of work by an approved special inspector where the work has been performed and at the completion of work.
Box Entries:
X = Denotes either "C" continuous or "P" periodic inspections, according to column placement.
-- = Denotes that an activity is either a one-time activity or its frequency is defined in some other manner.

Notes/Referenced Standards: Indicates the referenced standard applicable to the criteria, method, and frequency of the special inspection or testing required. Additional notes may be included in this box denoting frequency of inspections or the special inspection agency responsible for the particular inspection item.

Additional details regarding inspections and tests are provided in the project specifications or notes on the drawings.

VERIFICATION AND INSPECTION

Table with 5 columns: 1704.6 - Structural Observations, C, P, Check if Required, Notes/Referenced Standards. Rows include structural observer submission requirements and structural observations for structures and seismic resistance.

STATEMENT OF SPECIAL INSPECTIONS CNI-033

CONTRACTOR RESPONSIBILITY

Per Section 1704.4, each contractor responsible for the construction of a main seismic-force-resisting system, designated seismic system or a seismic-resisting component listed in the Statement of Special Inspections shall submit a written statement of responsibility to the building official and the owner prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain acknowledgment of awareness of the special requirements contained in the Statement of Special Inspections.

Each contractor responsible for the construction of the applicable system or component as specified above shall use the following lines to enter their name, signature, company, license number, date, and particular system or component that they are taking responsibility for prior to commencement of work on the indicated system or component. A copy of this page shall be presented to the building official, and it is the contractor's responsibility to provide the owner a copy of this document.

Name:
Signature:
Company:
License Number: Date:



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COUNTY OF SONOMA
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SONOMA, CA 95476



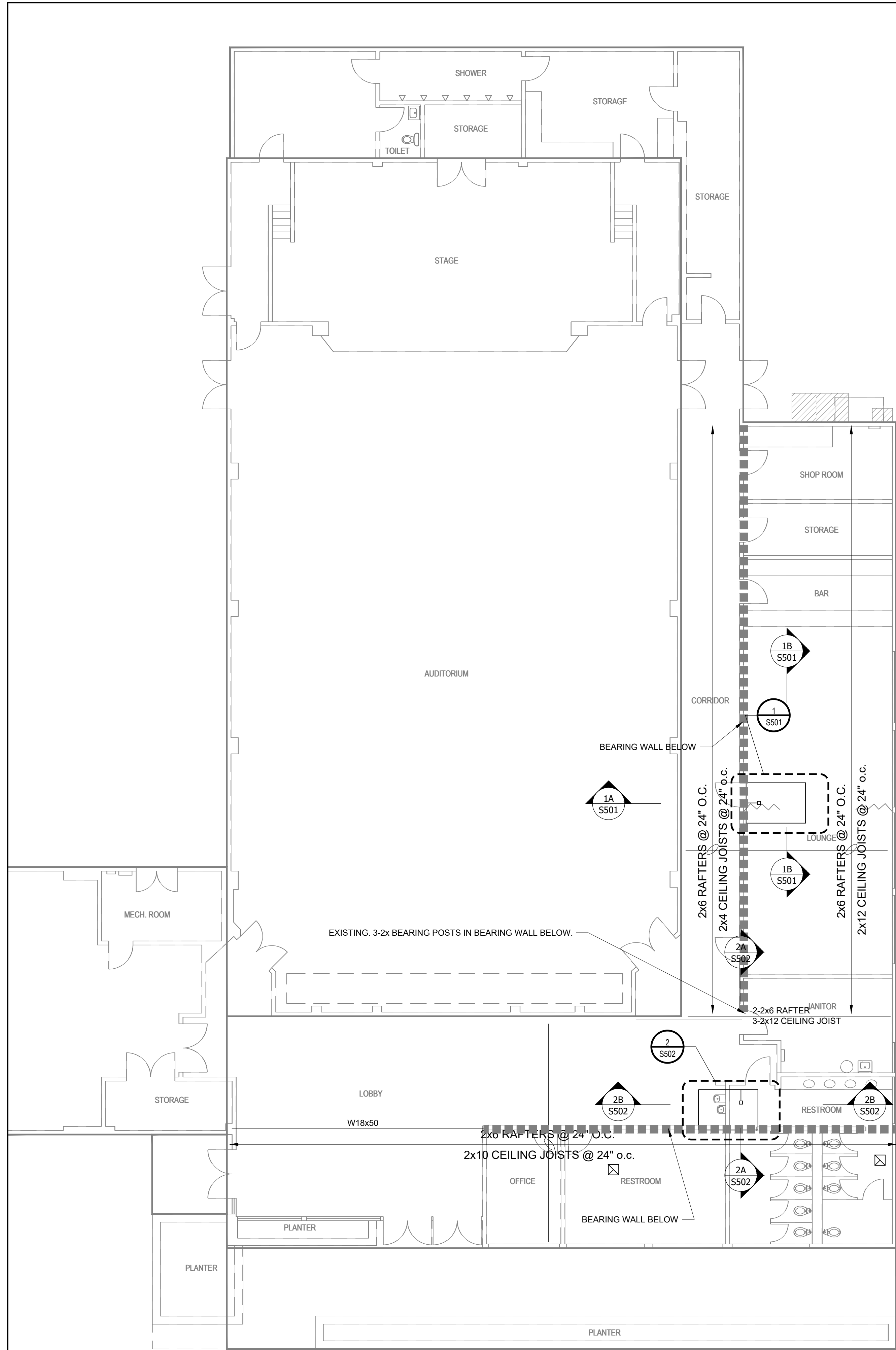
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STATEMENT OF SPECIAL INSPECTIONS

ISSUE DATE: 12/14/2023
ISSUE TYPE: PERMIT
DRAWN BY: TFL
CHECKED BY:
SCALE: AS NOTED
15000 INC. PROJECT No.
CONSULTANT PROJECT No.

S003

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1 PARTIAL ROOF PLAN

SCALE: 1/8" = 1'-0"



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CLIENT
COUNTY OF SONOMA
 23000 COUNTY CENTER DR., SUITE A220
 SANTA ROSA, CA 95403

PROJECT TITLE
**SONOMA
 VETERAN'S
 MEMORIAL HALL
 HVAC TI**
 126 1ST STREET WEST
 SONOMA, CA 95476



#	REVISION	DATE
1	PERMIT BACKCHECK	05/21/2024

DRAWING TITLE
**PARTIAL
 ROOF PLAN**

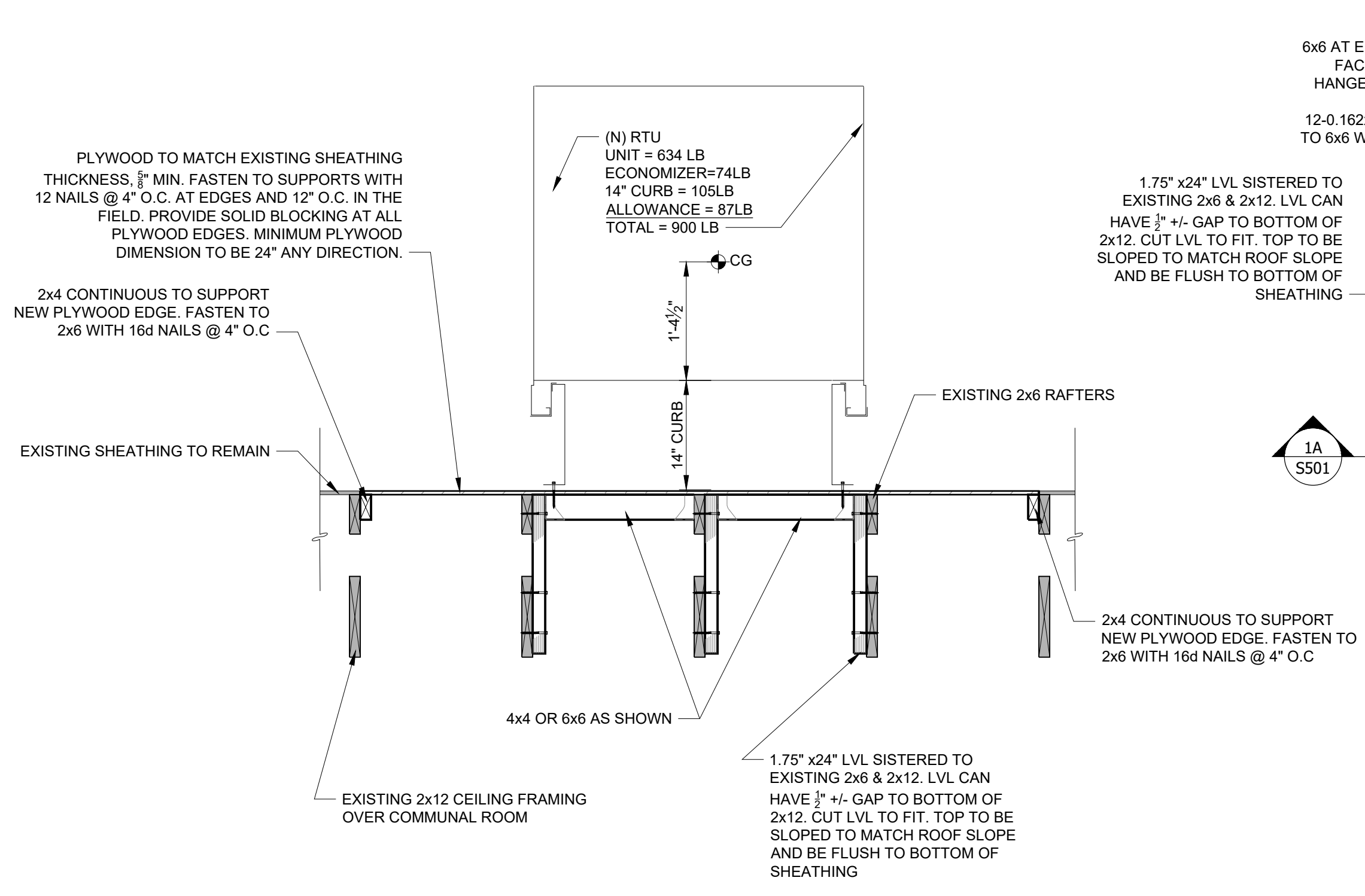
ISSUE DATE	12/14/2023
ISSUE TYPE	PERMIT
DRAWN BY	TFL
CHECKED BY	
SCALE	AS NOTED
15000 INC. PROJECT No.	
CONSULTANT PROJECT No.	

DRAWING
S101

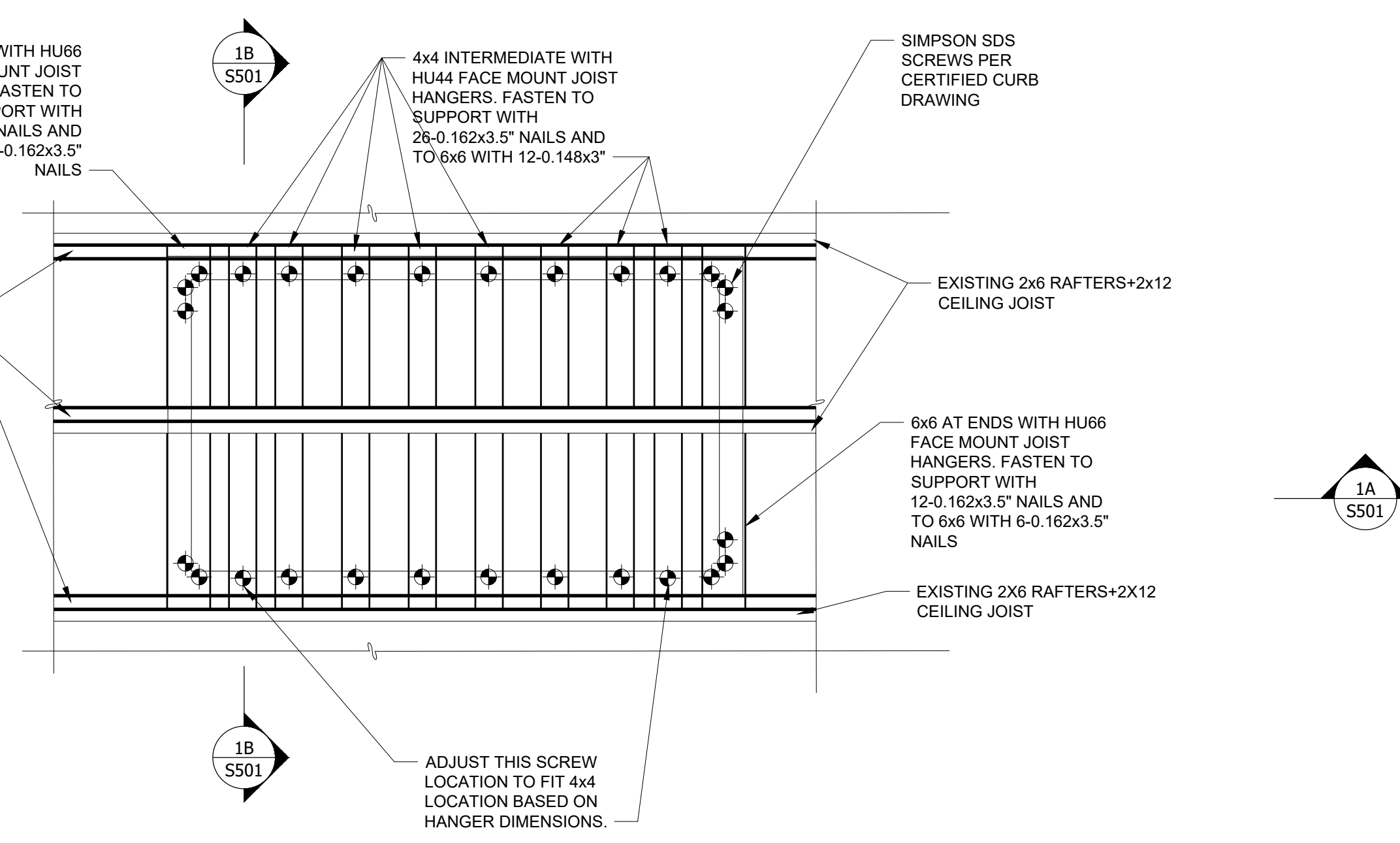
Date Stamp: 7/19/2024 Permit #: BLD23-7806 Permittee: Paul Marquez
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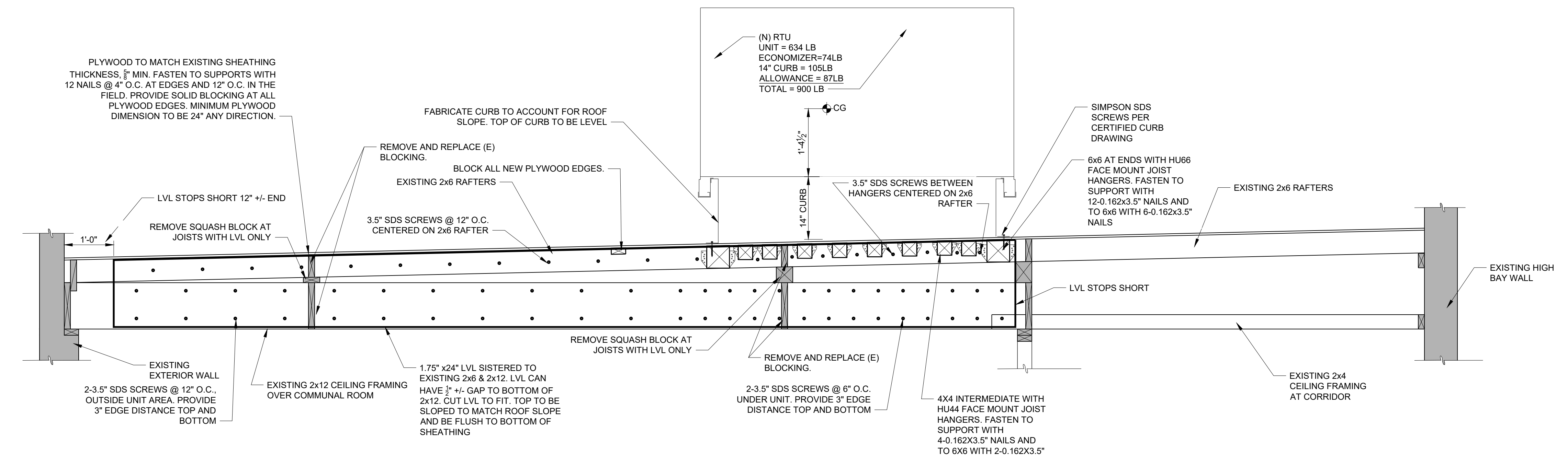
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1B TRASVERSE SECTION AT RT-1
 SCALE: 3/4" = 1'-0"



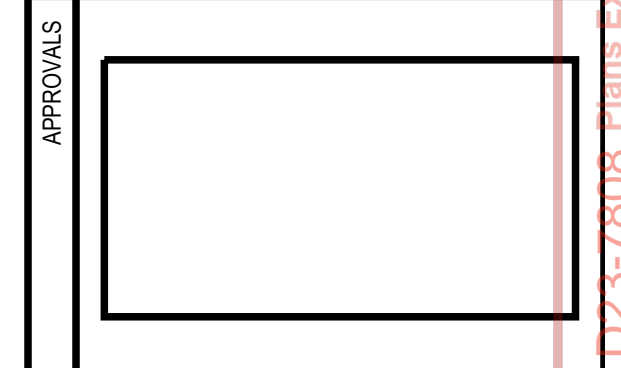
1C PARTIAL PLAN AT RT-1
 SCALE: 3/4" = 1'-0"



1A LONGITUDINAL SECTION AT RT-1
 SCALE: 3/4" = 1'-0"

1 SUPPORT DETAIL AT RT-1
 SCALE: 3/4" = 1'-0"

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 2. SECOND VISIT SHALL OCCUR ONCE FRAMING IS IN PLACE, BUT BEFORE SHEATHING IS REINSTALLED.
 3. THIRD VISIT IS WHEN SHEATHING IS REINSTALLED BUT BEFORE ROOFING IS REPLACED.



#	REVISION	DATE
1	PERMIT BACKCHECK	05/21/2024

DRAWING TITLE
 RT-1 SUPPORT
 DETAILS

ISSUE DATE	12/14/2023
ISSUE TYPE	PERMIT
DRAWN BY	TFL
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SCALE	AS NOTED
15000 INC. PROJECT No.	
CONSULTANT PROJECT No.	

DRAWING
S501

Date Stamp per: 7/9/2024 Permit No: BLD23-7806 Permittee: Paul Marquez
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DATE SIGNED: 05/06/2024

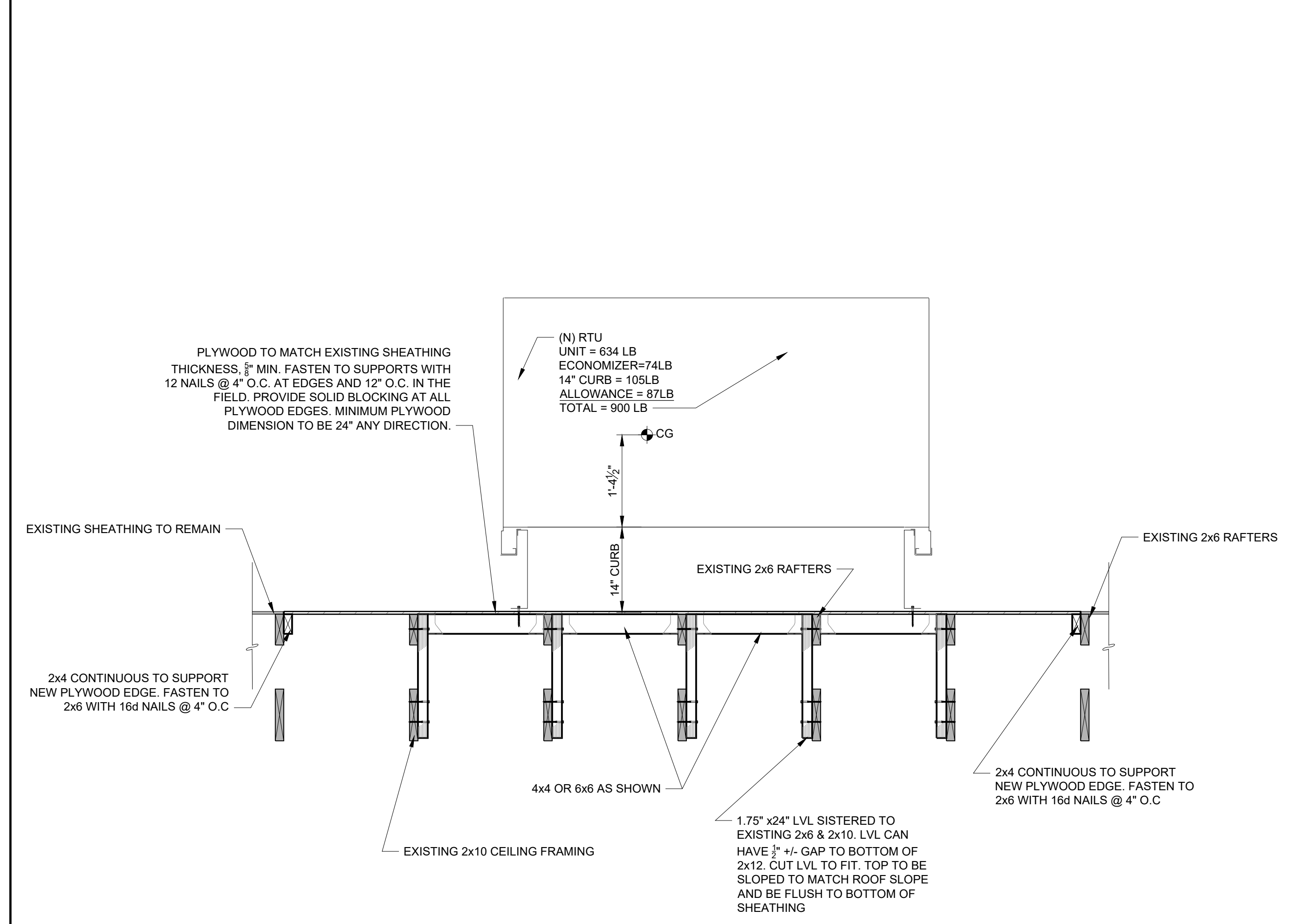
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COUNTY OF SONOMA
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 SANTA ROSA, CA 95403

PROJECT TITLE
**SONOMA
 VETERAN'S
 MEMORIAL HALL
 HVAC TI**

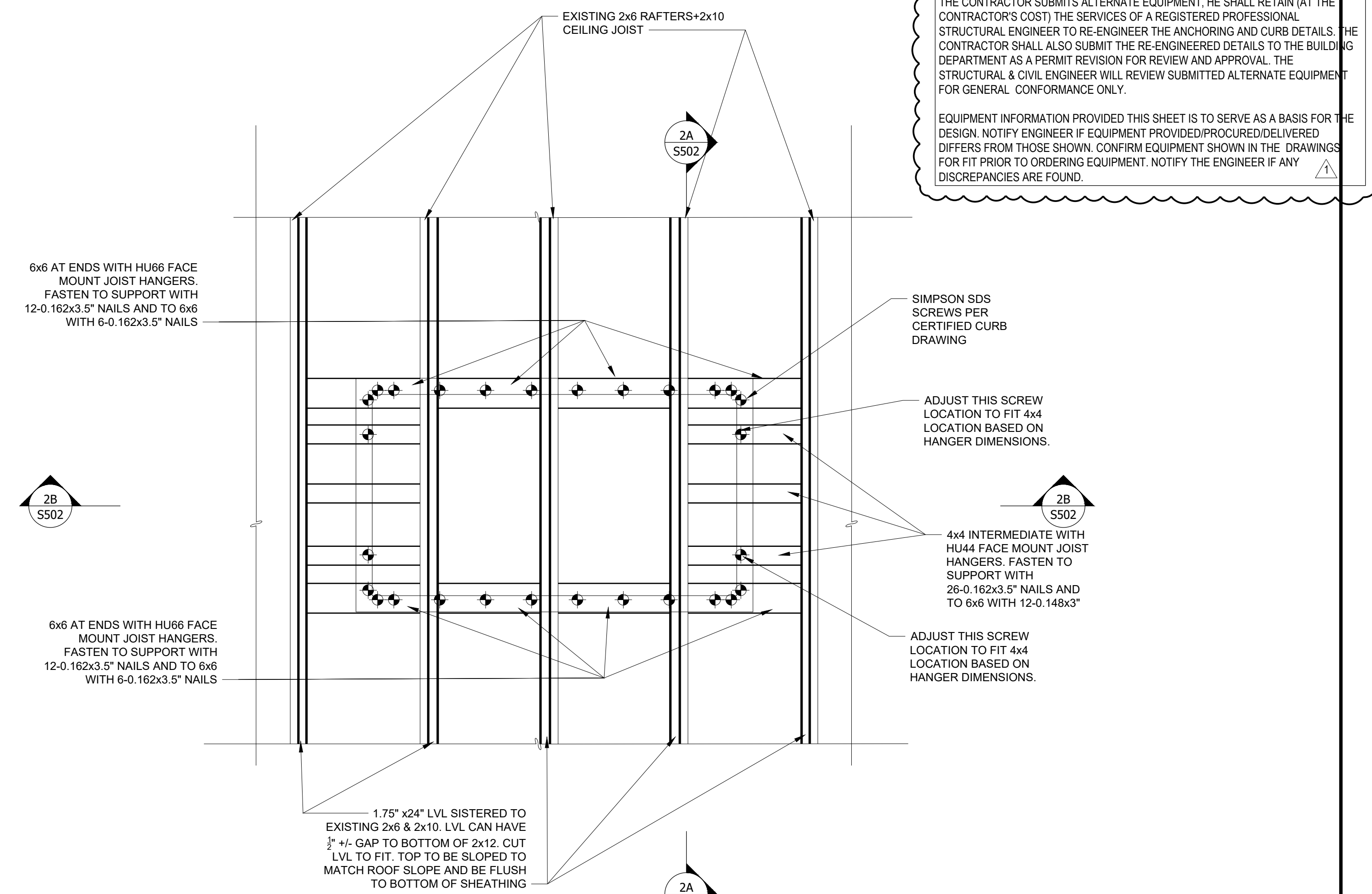
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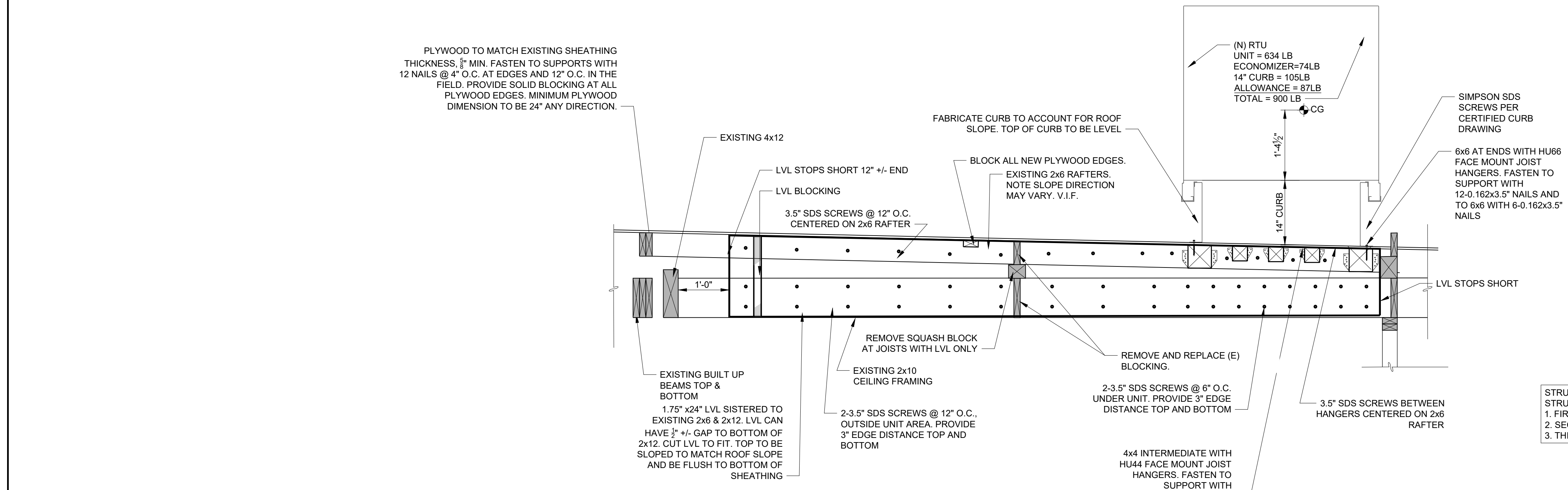
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2B LONGITUDINAL SECTION AT RT-2
 SCALE: 3/4" = 1'-0"



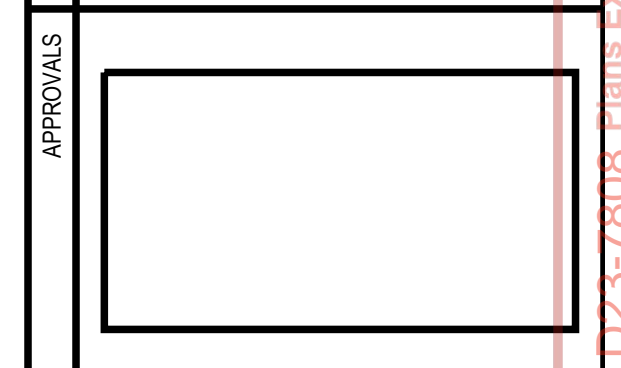
2C PARTIAL PLAN AT RT-2
 SCALE: 3/4" = 1'-0"



2A TRANSVERSE SECTION AT RT-2
 SCALE: 3/4" = 1'-0"

2 SUPPORT DETAIL AT RT-2
 SCALE: 3/4" = 1'-0"

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 3. THIRD VISIT IS WHEN SHEATHING IS REINSTALLED BUT BEFORE ROOFING IS REPLACED.



#	REVISION	DATE
1	PERMIT BACKCHECK	05/21/2024

DRAWING TITLE
**RT-2 SUPPORT
 DETAILS**

ISSUE DATE	12/14/2023
ISSUE TYPE	PERMIT
DRAWN BY	TFL
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SCALE	AS NOTED
15000 INC. PROJECT No.	
CONSULTANT PROJECT No.	

DRAWING
S502

Date Stamp: 7/9/2024 Permit #: BLD23-7806 Permittee: Paul Marquez
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